

<213> Glycine max

<400> 17895

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gtacttgata taatgaaaca actaccacaa gaacaccaat ggacaaacca acttcaacta 180
caacaaagta attcagcttc acctggagtt catataatga ttaatggcat tagaagaagt 240
caaagccaaa ccaacttcaa gtacaacaaa ctaattcaac tttttatcaa ccaaactatg 300
tcaaactact ttttggtat taaaagtgtt agttattcat gtgacaggta tactattcta 360
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acagacag 428

<210> 17896

<211> 378

<212> DNA

<213> Glycine max

<400> 17896

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gtgacatgcg gagataccca agtggttgtc cgcactttca taaacattct tttgctatct 180
gtaggacaga aagcctgata gcatgcagag actaacatcg tcttctgcac ccttcgtcaa 240
tcgcggccca acaagcccg tgcacgctga cggacggaaa taccgagtg gttatccgtc 300
tctgtcatat tgacatttga gtcacgctga cggacggaaa taccgagtg gttatccgtc 360
taaacattct tttgctat 378

<210> 17897

<211> 432

<212> DNA

<213> Glycine max

<400> 17897

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tactaaagtg aaacaaaacc cagtgcgaat caaaactccg acatctatca tgggtgggat 180
 ggatgaatgc attaagaaat gcatatgaca cagatgcaat ttatgaatac gggagcccg 240
 gaaattgtcg ccttcttaga tacaacattt gggcagcatg gcgctcgaca tatgtattta 300
 agaaggcgac acggaccctc cgtcggtttg acaaagtga gggttcaaga cagaatccgt 360
 gcatgatgca tatgcgaaag gcacaacacg aggatgtaca tagtacgaca atatccacaa 420
 aaaaatataa gc 432

<210> 17898
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 17898

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 aaatcgtggg atgtatgggt taggctataa gccactcag gcagatataa agagaagcat 180
 cgcggaagg aagagcggta gtcaaaactc gcggttgaga caagaagggtg aaggaagccc 240
 accctgccac ataagtagga gctttataag cgcggtctg ggggacgaag gtcaagtgg 300
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<210> 17899
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17899

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 caactatcac ccatgggtga agagtttgaa gaaattcttg gatgccact gggaggaagg 180
 aagccatata tttcctctgg gttctatccc tccatgacaa gagttgccaa ggtagtgaaa 240
 atctcagcac aagagtttga ccgtgtaaag caaacagga atggggtagt cggagtacca 300
 aggaagtgtt tggaggaaa ggcaaagacc ttgacaaatc aaggcgaatg ggcttctttt 360

attgacatct tggcgctttt gatcttttga gttgccctct ttccaaatac ggaagggtta 420
gtggacctag 430

<210> 17900
<211> 382
<212> DNA
<213> Glycine max
<400> 17900

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accacttgaa ctattacata ttgatctgtt tggctacaat gaatgactac attagatgga 180
catgggtaat gttccttgct cataagaatg agtcctttga ggtattcttt aaattttata 240
aaagagctta aaatgaaaaa aaagtatgcg ttacttcaat tagaagtgat catgggtggag 300
agtttgaaaa tgagaacttt cgtctattct atgaagaaaa tggaactttt cataatttct 360
tcatgtcata ccctaatttc at 382

<210> 17901
<211> 420
<212> DNA
<213> Glycine max
<400> 17901

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ctgggtcatgc atgcacctat gtggacgctc aagtgtcaaa tttttatggg catgtgatgc 180
tagggctcag gattcatttc ctctatttta aatcaacca atgtttccaa aatatgttct 240
tttatcaatt tgtgcattca tccgagtcca tttcgggctg ctaggaaaat tttcacagca 300
ttcaccttc aggtgtacac acacattttc caaaaattag tgaatttttt caaagaaaag 360
ttggaaatca tctcttttca taagcatgtc ggtttttcag ctagacaact tatttttctt 420

<210> 17902
<211> 384
<212> DNA
<213> Glycine max

<400> 17902

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aatgcccact ttggcaccgt ttccaacgcg atgaggaact ttcccccgag gccaaattcca 180
gaattcaccg cgatcccaat gacgtacgaa gacctcttgt cgtctctcat cgccaaccag 240
atggctcgtga tatctcccgg gaagatctac caacctcctt tcccaaagtg gtatgacctt 300
aacgcaactt gcgcgtacca tgggaaaacc cggggccact ccacgaaaa atgcctggcc 360
cttaaataca aggtccaaca ttgtg 384

<210> 17903

<211> 436

<212> DNA

<213> Glycine max

<400> 17903

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aatgcacata cttcttcatg ctagaaaacc actctttgtc actcgtgtct tgaacactac 180
aataggaaac cacttccttt tgtgttagaa catgtttggg caatagaact cttcttttga 240
tggaaattga aaaatttttag aacttgactt catttattct tcatatgatt cgataaatca 300
taggagaatg tctttgcaaa atagatctta aacacagagt attaaatgaa gtctaataa 360
aactctaata ttgtatcaga tcatgattcc atcttgctac tatctggaac atcagatgca 420
aacttcgagg aacatg 436

<210> 17904

<211> 377

<212> DNA

<213> Glycine max

<400> 17904

agctttcata agtgaaatca agtgcaacca ttcccttag agtcctctca cgagggtggag 60
gttgagccat attttcagaa tgttcaaaat cagaatgctc aaagtcagaa tgctcaaaat 120
caccaaccac agaatgctca gactcaccaa taacaaaatg ctcaggatgc tcaaaaggta 180

caaaatgttc agggtaatca agatgcacac tatgcctaac taatctatga aatgtcctat 240
ccatttcagg atcaaagggg tgtaaatacag atggattgcc tctagtcata cactacattc 300
aacatgcaca attagttgcc ttctcatgca agtaacagtg taggtttgaa ctacaactat 360
catcaaatga tatccaa 377

<210> 17905
<211> 420
<212> DNA
<213> Glycine max

<400> 17905

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atthttccacc atggagatgc agcgggaagac aaaggagaag aggtaagagg cggcgccatc 120
cactagagaa taagccttgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
gcttggagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga aacgggggag 240
cacgaaattg aaggaagaaa aaggagagaga agttaaaactt tgagttgtgt ctcacaagac 300
ttctattcat caaagttaca acaagtgtta cacatgtttc tatttataga ctaggtagct 360
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<210> 17906
<211> 375
<212> DNA
<213> Glycine max

<400> 17906

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taagccgagg cgcttccgaa atgtttccgt aacgtttcca taaggaattt ggcgaagggt 180
tcgaccgttc ttcgacgttc ttcattcggt cttcatcggt cttcgatctt caacgggtaa 240
gtacctcgaa ccaagctttt caattcattc tatgtacccg tgggtggtaa cattgtgttt 300
cgtgtatttt tattctcggt tcatttactt tttatacccc cttttgacgt gcttaagcca 360
ttttatttaa gtcac 375

<210> 17907
 <211> 425
 <212> DNA
 <213> Glycine max

 <223> unsure .at all n locations
 <400> 17907

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 agagcgcttg gttcgacccc tatgtttgct agaatgaaaa ttgtgatgat gaatacaaca 120
 gggaatattt atgctatgca tgacaaaaca cgcttaccta cggacgcaag agtccggaag 180
 accagccctt cttatccaca atgcattagg catcatggtt catccgcaga cattaccatg 240
 gtgccc aaat gcatgcaatt aagaaggtga tgcggacctt ctagctcccc gtgacaatga 300
 tgatgagaca aatgcgaagc gtgagtgatg acactgtggg agtatgcatg cacgagagca 360
 tgtggtttgt agcacanaga gaaacatact agacgaacga gcatgacaac ataataaaat 420
 aatgc 425

<210> 17908
 <211> 376
 <212> DNA
 <213> Glycine max

 <400> 17908

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 tcccttttta tagctgctgg agtggactcg ggcttgactc cctttctata gttgctggag 120
 tggacttggg cctgatgcca aaaaatcttc cttatttata tttttgatca tttctggatt 180
 attttttttt gcttttaatc cctcattttc atatctgtaa gtcataaata agaaaaatat 240
 caattcctaa catttaagtc aaaaataact gctaaataaa tattttttaa gatattttca 300
 atatattttt atcataaaaa atagctcata ttttaacagtt ataatttttt ttgtcgatgt 360
 tggtttggac tattttt 376

<210> 17909
 <211> 429
 <212> DNA
 <213> Glycine max

 <400> 17909

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 tgggtctctca gaccttgact agatatgatt tctttttttg aaataaaatg agttgggtccc 420
 at 422

<210> 17912
 <211> 378
 <212> DNA
 <213> Glycine max
 <400> 17912

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 ctactttaat ctattaccag gtgatataat tgattacttt tctcttaaatt gtatttcaga 120
 agtgatcaag aacacttttaa tcagttacat tgagaatcta attgattaca ttgttcttga 180
 aagttttcca atttttttgga agaacacttt aaaattactt ctttgaaata atcgattgca 240
 ttgtataaat agccaccttg taccctcact taaaacaact tctaaatgag ctagaattag 300
 gagctaatat tagtaagata aagaagagga aaaaaaagtg ttgaaatata gtgtgactca 360
 taacttctaa ccgctcat 378

<210> 17913
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17913

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 aaaactgttc agagtagcca gaaaagttat catgataaga agaggaaaga tctggaattc 180
 aaggttgggtg atcatgtatt cttgaaagtc actccgtgga ctgggggttg tcgagcattg 240
 aaatctcgaa aactcacacc tcgtttaatt ggtcctttcc aaattcttaa gagagtggc 300
 cctgtggcat accaaattgc attacccttg tctctttcta atcttcacaa tgtctttcat 360
 atgtctcaac tccataagta tatctgtgat ccacccatg tgattgaatt ggatgatgta 420
 caagtga 427

<210> 17914
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 17914

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 atcacacaat atcaccaaaa ggtttttatac aacaaaatat tacgtcacag agtatagaaa 120
 tcttcccacc ccaaataatc atcaaaaagg gaaaactatc ctacactcag agcagtcagt 180
 acccaaggcc cacaactacc tcttgaggaa tcgtgttact cgtcgggtga aagcatctct 240
 ccctcaagta tctcttcacc aataacatcc atgtagtagg caatctcaga cgggtgtgaga 300
 ttgtcatcat cactgaaatc tccaacatcc tcgtaaactt taatggctct gtcctggcaa 360
 aaggtagatc tagta 375

<210> 17915
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 17915

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 gataaaaaga aggccaatga tgatgatgaa gactatgtac ctgaatatga aggggggactt 120
 agatcaaatt cttcaagtga aaattacgag aacgacaaac atgatgagtt tgctattaca 180
 aatgatcttg agtcacgaaa aaggaaggta agtcttgaaa ttttttcaat ataatgctaa 240
 tatacattat tttgttaata aatgagtggg gtgggtttgt gagtgagatt aagatatata 300
 ttgtgtttat tgatgatcta cacaagtttt caatgcaaga aacaattcag ttaaaaacaa 360
 tgtacccatg taatagatat aaaattgcag tgctctatgt tatgcaatgc aatcaatatg 420
 caatatgcg 429

<210> 17916
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 17916

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[illegible]

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ctttgatgat gccaaacatg aatacaacat taagtgcatt tggagtctta agattggatt	120
ggagacttga tcacttagtc ttatcctaaa aaattattaa cacttgagaa gagattaatt	180
catcatcatc atatatgtca atacatcata tatatatata tatatatata tatatatata	240
tatatatata tatatatata tatatatata tatatatata tatcaatgca tcatcatgta	300
tatcaatcaa gaatgcagtc aatatcttct tctccctctt gtggcattaa cacgggaaaa	360
aagttaatta ttcacaaaac acaaacacac atgtaagaag agatataaaa ccttattttca	420
ttaaactg	428

ttgtttgtgg	aagaatgtga	aaacctctga	aatattctag	agatgtatgg	aaccttctgg	60
aactttataa	aagaatagag	aagagagtag	aagagtataa	agactcctaa	aatgtgtgga	120
acattctaga	gaattaatct	ccaacctagg	atacaagtaa	tcttcaccat	ccattataga	180
ggtggagtaa	tataaataag	agtaggagct	tatattccta	actatccaaa	aaagagtgaa	240

ttcattttctt agagtgagaa agttagaaag ttaaatagtc tctttgatag agaaaataaa 300
tagctgggaa aatctttatt ctcaagcttg agtaagtcac cgtagaatga gtgcaattta 360
taattacatc cttat 375

<210> 17919
<211> 365
<212> DNA
<213> Glycine max

<400> 17919

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tcgccgcgag cgcgcccga gttcaaccca gaaccaaca ttcctatgcc caatgaaaga 120
gaaggagaaa aaaaggggac ccaggaatca aaaaacggtg cttttatgga taaaaactcg 180
gggtgtgtgtg gtcaacggtg tttcagatag aaagaaattg tggggaattg gattgggaac 240
gatgaggatc tgtctgtggc gattctaggg tttgggggaa aggggtttct gattttgttg 300
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gaaaa 365

<210> 17920
<211> 380
<212> DNA
<213> Glycine max

<400> 17920

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caccccctaa ctcccatatc ctacaatgaa atcaacctaa atgcaagacc ataaaacact 180
aagtttattc tacaactgag atgaaaagta tgtgcttggc cataggtgta gtgcgaagca 240
ttttctcttg ttgttggtcg aggatgatgc tgattctaaa accattgacc cagcaactcc 300
taaccacccc cccttgatga ccagtcagaa cctatacatt tccatttttc ccataagcc 360
tttactggat ccccttcccc 380

<210> 17921
<211> 350
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17921

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aaattgtgca gcagaatttt gcacaagtgc aaaaaaatac ttgtgtgtga ttggctgtgg 180
aaagagtagt gcagaatgag ttctggatgt ttgctagtag atcccaacgg gcaaaatgta 240
ggcttatgta ctagagactt ccagtaaaat nttggagtcg atccaacggt taacgaattg 300
gaacgaagga attgttactg gggctcttaa gtgagaaaag ctctgtgattt 350

<210> 17922

<211> 376

<212> DNA

<213> Glycine max

<400> 17922

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atctatctta ctttttactt aagttatgaa ttcccttaat gacaatcttc ttaaata 180
attcaaatga agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240
aagagaaaat gcaaactcag ttttatactg gtteggccac acccttgtgc ctacgtccag 300
tccccaagca acccgcttga gagttccact aacttgtaaa ttcccttttac aagttctaaa 360
cacacaagga caaccc 376

<210> 17923

<211> 431

<212> DNA

<213> Glycine max

<400> 17923

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ctaacaacat cccaaaatgt tcaccaatat cagattcagg aacctgtatt gtgtttaact 120
gagaagaatc tatggacgac actaaaaccg caatagtgc atttatcttc aagcagtc 180
ccttgagaaa atttgacgtc tcaaggtgtc tccgtttgaa aaaccgcgta tagcccctat 240

tacgcaacaa gtgcatcatt gatcactata tacgtaatgt acaccacaaa aaatggatac 300
aagagctaataaatcatgat gatataccaaa tcatatcacc aaaatcacaa ggttctctag 360
ttccttttga aatttaattt ttatgtctta tattctaata aaagagctat ctctttaacc 420
cctgacaata g 431

<210> 17924
<211> 379
<212> DNA
<213> Glycine max

<400> 17924

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acactcttat tactgactgt aatctccaaa tgtggagtga ttgtatagg gttactctac 180
ctagaaacgt tcttgcgtaa tggcttttag cctcctttga ataacaataa aattgtgcaa 240
aattttatta aaaatatttc tgtgaatttt tatttttata acttgaacca tgcataccac 300
ttatacaaac tgcacgtgat tgcattatt gatgcataca attaaattag tatgaaactc 360
attcaactaa caaaagtca 379

<210> 17925
<211> 405
<212> DNA
<213> Glycine max

<400> 17925

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gtagatctac acaaatgatt acaagttgct taaaagttct atacattgaa gtttattgct 180
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attactcttg taaagaagag gaactgctct ataccatgaa tgaactactc tacatcgaaa 300
gtagctcctc ccgaacagaa gtataccacg atagagtcaa tgaactaatg acgtattgga 360
gccaagtca aaacacattc atgctagcat gctttcactt gctga 405

(continued from page 6)

ccacacatac	taactacata	accgaatagt	taactaatct	aatatagaat	gaatagtata	60
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tatnaccgcg	ggaacctcta	gagccgacaa	gcaggcatgc	tagctcagtt	tgттаattag	180
agaaacagca	ctcctagaaa	taatatgtaa	tattcactcc	tccccaatca	tatacatcac	240
ccaaccttta	atacttgtgc	aaacatcaac	aggcaccttc	tcgtaccaa	ctagacatga	300
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cgacagagat	ataaatcctg	tcacaaagaa	cacgaaccac	aaacgaggtg	tgactacgat	480
gaatcaacac	acaaaaagtt	aataaatcct	aaaacgatca	aaactgctat	tatgattcca	540
cacacccg						548

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<223>      unsure at all n locations
<400>      17927
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7514

<210> 17928
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 17928

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 ctctcattca tcaaagttac cacaagtgtt acacatgctt ctatttacac actaggtagc 180
 ttcttgagaga agctttcttg agaaatcttc catgagaagc ttctttcaca aaacttcctt 240
 gagaagctag agcttagcta cacacacgcc ttcataact aagctcacct ccttgagaag 300
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 aagctcacct ccttatgatg ag 382

<210> 17929
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 17929

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 ctgtcggatt gctggaggaa cgtatggtct gctcgggcta tcagcatttt gacaataagt 180
 ctgctgttga tgctgctgct gctgtgaagg atccgaccat ctaagggttg gatgattcct 240
 ccatccggga ttgtacctgt tgctggagag gtcataatta ttctgttggt gtctgtgtgg 300
 ttgccagcat aggagcataa accacagagt ctggcgacag gcgcagatta ttgattcatg 360
 gccatttggg ttaccaggtt aaccaaggca tctagtttac cttcaagctt cttagtc 417

<210> 17930
 <211> 83
 <212> DNA
 <213> Glycine max

<400> 17930

gaaacccatc atcaacaacc gatataattc atttaatgat gcctcatcct ctgacaacat 60

cacaaaatgc tcaccaatat caa

83

<210> 17931
<211> 360
<212> DNA
<213> Glycine max

<400> 17931

acacataaac atgtatagaa agttaaataa attaagaagt aataggtcaa ataataaatt 60
gaaattgaga cgaaaattaa gtatcatttc agaattcaac acataaaata cttttatatg 120
cactcttttag ttttaattatt tattaaccct tttaaattga aaataatagt aggttaattg 180
taatattata caacattatt gtgtcaatgt aaatattaat attgggggaa gtgtatatga 240
ttcatgaggt gtgataacat gttgcgctaa gattataaca ctgtgattga gaatgagtga 300
atgtgataaa cgaataatgt ttgaatcgga agatatatgt gtactgagat tttatatgca 360

<210> 17932
<211> 245
<212> DNA
<213> Glycine max

<400> 17932

gcattattta atcatggaca tgagactctt gtttaatcta tagcatattg acacgtggat 60
gaagcattgc ccacacttgg ataaactctt catctgggtg agtatattgt tagacaaccc 120
ttaactaatt aacaatacct actcatgtga ttgtaaaatc ctatccatcg actattagca 180
gctacggtta tactcacacc gacaaacagc gtcttcaaga cgaggcacct cttcataaac 240
atggc 245

<210> 17933
<211> 371
<212> DNA
<213> Glycine max

<400> 17933

ttttttgagg tggaagccat gtggccaatg gctaacttgg agctgtaggt gagttcctgc 60
tgggataaga ggggaagagt ccaggatttg gatctgcacc tgtccctacc acttgctcta 120
aacttgata tatttgaagc tgatcatttg tctgtaaaat aagtgaaaga ttgaaagagg 180

attctaaaat tatcaaaagt gaatttttaa accacatcag tggatcagaa attaaccaaa 240
 acacgaagtc cttacagttc ctatattcaa tctcttggtg tcccaatcat aaaccaactc 300
 ttttgaagct aaccgctttg tcccaagtgc ttcacaccta taaagtggaa caacgggttag 360
 ttaaacgtaa t 371

<210> 17934
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 17934

tgtacgaatg tgagaaacat cttcttctac cttggtgagc ctggacttca tctcattgaa 60
 gcgcatgtcc acttgtaact ccaaagtatc aaacctttca ccaacaaagg tttgaagacc 120
 atcgaaccta tccaaaatct tttgaagaag agaggaatct tctccaccat gtaaattgtcc 180
 ttcttcatca acgggtcgag caccattttt cacccaagag ccatcatgct ctttttgata 240
 accaaaggat ccaatgacag caaagcctat taciaaggat ctcttgattg gaacataagg 300
 ttcagaatca agagggatgt taaagtgtcg aaagaaaagg gtgactaagt gtggatatgg 360
 caatggagca ttttaattgca atgccttatg catgcgatat cgaactaagt atgcccaatc 420
 aa 422

<210> 17935
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17935

ttctttaata taataattgc attaatagaa ttaatatata tatatatata tatatatata 60
 tatacacaca ctttttttct tttatttact aatataacaa attgcacaat ttattaaaat 120
 ttaagaataa ttatttgtaa gagacagaaa ggaacaattt acaattgatt aaaatttaaa 180
 atttaacgcg tcggagtcaa tagcaatcag aacaccactc taaattttta caaaataagt 240
 cgtgcctttt ctttacgggt canaataaat caagtctata tacaattttc tatatatata 300
 attgacatat agccaatcaa tagtagtaat tatgacaaac aagaataata acatataaag 360

ttattttaaa ca

372

<210> 17936
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17936

tctctcagca actntgactg caaaacttca caggtgctac atggcttctt tgcaagtgc 60
aagacaagct ttggcatctg agtctcagag aacaccaccc tcagtgcaaa atgcaacaac 120
ctccacaacc acaccaatta gcaacaactt cagtgtgaag agtgagcaaa ctcatgcagt 180
gttgccacat aagagaccag aggaggagca agagtcagag gcaaatacgg gtgtgaaaag 240
ggttaaggct gtggaaaatg ttcctctgca attcaagcct cttgaggaag atcacataga 300
gcaaatgatt gaggagcttc ttgattatgg atctattgaa ctctgctctg tcatttcacc 360
ccangccctc taattgaatg tgcattgttt tgagctgaat ctaaagtcac aa 412

<210> 17937
<211> 340
<212> DNA
<213> Glycine max

<400> 17937

ttcatgctat tctgtacggt taaagtctca cgattgtcac atgtcgatgc aacaatgggt 60
attcgtggct atacaagaca tcttgccaaa caaagtcaag ttagccataa ctgcctgtg 120
cttcttcttc catgccatat gtagcaaagt cgttgatcct gtcaagcctg atgaattgga 180
aaatgatacc gcaattatac tatgccatgt ggagatgtat tttccccctg ctttctttga 240
catcatgatt cacttgattg tgcatttggt catagaaatc aaatgttgag gtctgttca 300
tttgcgagg atgtaccgg ttgagcgata cttgaagatc 340

<210> 17938
<211> 424
<212> DNA
<213> Glycine max

<400> 17938

taaataagtg tactaggagt agttgtctat ccgctcgctc attctcaacc aattgttact 60

[illegible]

<400> 17939

<400>	17940
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atttctcaat gctaaagtca cctaactatg catacaaagt gatgatcaga ccaagagcat 360
acataattta agcactaaaa gaagcattga acacacgaaa cataatcaat ta 412

<210> 17941
<211> 357
<212> DNA
<213> Glycine max

<400> 17941

tgcttgccctg tccgatgcag cagtaatgat ggcccagatt atgttgggga acggttacga 60
acccgtaatg ggtttatgca aagacaacgg tggcataact agcctgataa atgccaaagg 120
aaatcgtggg aagtatgttt taggctataa gccactcat gcagatgtaa agggaagcat 180
cgtgggaagg aagggcgggtg gtcaaagctc gcgggtgaga caagatagtg aaagaagccc 240
gcctgccac ataagtagaa gctttataag ctgcgggtctg ggagacgaac gtcaagtgggt 300
cgcaatatac gaagatgatg ttcttagtac attggatttg gtactacctt gcccttc 357

<210> 17942
<211> 413
<212> DNA
<213> Glycine max

<400> 17942

tcgcacttga taatggatac acatgaacag cgctaataca tgacattcat ggtgctccga 60
ataaagggtgg agtatggagg attgccttga gggctccttc ttatgcaatc atggaacaca 120
gctccaaact cgaaagtgga ggacacatga acaaccctaa gcaataacat tcatgtggct 180
ctggaacacg atgagaatgg aagattgcct tgacgggtcct ctcttaggca atcatggaac 240
acagctccaa actcgaaagt ggaggacaca tgaacagccc taagcaataa cattcatgtg 300
gctccggaac cggatgagaa tggaagattg ccttcagggt cctctcttac gcaatcatgg 360
aacacagctc caaactcgaa agtggaggac acatgaatga caacgcaatt caa 413

<210> 17943
<211> 382
<212> DNA
<213> Glycine max

<400> 17943

agcttagccg ccacaaatta ctttagacca aaccatttca taggtcacia aatcaacatc 60
 aaacgttgtc tattaagatg caaacatact agtctaacgt cttatagata cacaatatta 120
 agctcattgt ctttttctct caggatttac aagatatttt gaaagctttt tacaacttaa 180
 aaattttgaa ttcagagact taaaagatga aaaatgaatt tgacaaaaaa aaaatactaa 240
 taatttcacg gcaacaaaat tcacaacaaa ggttgtttga ggaattgtc aaacaagtat 300
 ggaaaggtag aacttgcaaa agtctttgac agtcacgtt tttaaacttt tatgttatac 360
 tttccaaagt cattcattat gt 382

<210> 17944
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 17944

tgaaggtagg agaagatgag tgaaaggaga gggatagaag gagcacgaaa ttttgtgcct 60
 caaatgaggt ttgaactttg aagtgttaatt ctcaaatgac caaagttgaa aaatgcacac 120
 acatggcctc tatttatagc ctaagggtca cacaaaattg gagggaaatt tgaatttcta 180
 ttcaaatttc acttgaattt gaaattgaat ttgtggagcc aaatttagga gccaaaattt 240
 cactaattat gattagtga ttttagctat ggttcagccc actaatccaa gatcaagttc 300
 aaaatttctc actaagtgtg cttaggtgtc atgaggcatg taaaacatga aggacatgca 360
 caaagtgtga ttatatgatg tgacaatgag gtgtaacaag caaatgctca cc 412

<210> 17945
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 17945

tgcttggttt gtgagtggat gttagcctta gtttcacttg gttatttatc aactcattca 60
 aaagaacttt caaagtaaaa tggtcgattg gagcttattt accccctttt tgctaaccga 120
 ggttatagtg tgaatgatcc ggtgaatttt attttaacag tgattagatg agattacaac 180
 acaaatgacg tggtgaaatt cattttatca ttttattacg tgagataacg gcttaaagga 240
 tcggttgaag ctggttgaaa acggaagaaa aggataccaa cagtaaata gaagaagatg 300

aaagcataca aagcaagaat ggaccactaa tgggtgcatag aatgaataga aagctttgag 360
atc 363

<210> 17946
<211> 220
<212> DNA
<213> Glycine max
<400> 17946

ggggggggtg gccgaatgaa gattgggcct actagtcccc caactcagaa gcgctatcgc 60
tgtgtattca agttatcatt gtctcttaat gacgatctta ttgaatgtga agccaaatac 120
accagtgcctt atatgagtat taaagtgtca ccaatacggg agattacggg aggagagact 180
gcaagctcag attcatacta ggaatgcctc gcgcttgtgc 220

<210> 17947
<211> 377
<212> DNA
<213> Glycine max
<400> 17947

tgctttacaa ccaattcgtt aagtacaaat tattataagg gcttaggcct tttttctact 60
ctcaaaactt gtggccataa aatagtataa ttattggaag ttggctctcc caataacaca 120
aggcagccaa tcacacttta cacacaacca accaaatttg aacatctcgt ttgcattttc 180
aaaatgggac aatctattct aaattcagat tccaagcctt aggttgcaact ggtgcaagct 240
caaaaatgat atgcctaagg cactgctcac taataaaaat aaaaataaca gctagataat 300
tctgtctaca aatcttctta attttatctg ccatttttaa gctcaaccaa gtaaacgtac 360
attcgacatc ttttatt 377

<210> 17948
<211> 377
<212> DNA
<213> Glycine max
<400> 17948

aagcatagcc tacatcattg aagaaaaaat ggtaaaattc cacataaaac atcagaggat 60
ccagacatac aaggctttat ttaccttgca ttactcaaag aagttttaac taaaaatttc 120

ctataagcct tatcattttg atccaaggtg cctggagatg agaagcagat agtgtaaaca 180
gatatctcaa agaagggcatg gtgacttttt ttgtattaat aatcgaaatg aatgtgaaca 240
gagtacatac ccatactctt ttaagattgc tagcaaacac aatataaggt aaatgcaaata 300
gcgatgccct ctacattgta aacgaaactg gttatacaca ttataggagc ataaataata 360
ttgggaagca ctgaatt 377

<210> 17949
<211> 379
<212> DNA
<213> Glycine max

<400> 17949

ttgcttatat gcaacataaa gtaactaaca tatactctaa ttaagagggg caattacctg 60
gcttctaggg tctttgttgg tctgagatta attggtttct tccttgcttt aatgcctaata 120
ccgcttgaaa cggtgattgg tttaggtata tgtgctggcc aatgtaagtc tgattctgca 180
gaatcactag ttgcaatctc aagctcatca gattcatatg tgggtggccat atcaaacaata 240
tcttggttat cctttctatg caaggagtgg tccatgcata ttttagaagg ctctgagaga 300
aagggtggac ttgacattgg agaagattgt tgctttctgc ttccactgcc ccacgagact 360
atcatcacta ggtaagctg 379

<210> 17950
<211> 399
<212> DNA
<213> Glycine max

<400> 17950

tgggaggtca cgacgaatca gatacactga atatcttggg taactgacac gtgagtgtca 60
tgcatgactt tattataccg ttctaagaac atactaagac cttgagcatc cattgctgca 120
taatecttca tatataccat aggccaaagc cgtaatatct gcgtcagcaa tgctatttgc 180
atccacaatc cgcttcggggc tcctacaagt aaccaagttt accctcacgt gatatactat 240
gggcgaaaca ccaatagaca catgctcact gacgaaggac gtactcaaata gtgccgctag 300
actactagga tgtgactact aatactactt tactatgctc atacgttaag atatattcat 360
gattcacata aacatatctc ccacccccca cccccgaag 399

<210> 17951
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 17951

tgcttgtaaa tatttattgg tataattcgc ctgttcatt atgctcttga tgtctttaga 60
 ggttacttcc tcgttgacat cttttgtctt gaatggaatt gccatgacag gtttattgtt 120
 actgtctttg atatttggtg gttgatattg tgttgcgga ggtaattccg attggattaa 180
 ctcaccatcc ttaacttgcc aatttggtat gacatttgtt gttggatcac ctatgatgtc 240
 ttgtttccaa gggtaatcta tattctttct gatggcataa gcatgaaacc aatcaaagaa 300
 caggacatta attttgactc gttcgacaaa ttcgtacaac ttgtcttga tttgctttct 360
 gtttgacacc tgtaatg 377

<210> 17952
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 17952

ttggttgta tgatgaatta gattcattgc atagtaatga taacagaaac tttattgtca 60
 tacaagactt tcttagtaca ttagaagaaa ttcctagttc cttgagcatc cattgcaaca 120
 aaatccttca tatataccat tggccaaage cctaaattct gcttcagcaa tgcttctagc 180
 taccacaatc tgcttcttgc ttctccaagt aaccaagttt cccctcacgt gatataatat 240
 ggatgaaaca ccaagataca caagtaaaca gatgaaaaat aaatccaaat gtgcagctag 300
 acaacttgca tgtgactact attactaatt tactatgcac atatgtaaag atatattcat 360
 tattcaacat aaacatatcc cccaccccc cccaccccag aagaaaatgt actacaaggg 420
 aaaggtatac catta 435

<210> 17953
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 17953

tgctttgcgg atttgggtctt cgctggcgaa atgatcgaag tgggtctaaa aagaggaaaa 60
tctgatcatc atgcattgat aaatgcaaaa aaactggggc aactgaagag ggtgagaatg 120
aggagaaaac ccatgatgtg attgccattc ctatacaacc aagtttccca ccaacccaac 180
aatgtcatta ctgagccaat aacaaacctt ctcttacc accacccagt tatccacaac 240
agccatccct aaatcaacc ccaaagcctg tctaccgcac tttcaatgac gaacaccacc 300
tttagcacia accanaacac caaccaagaa atgaattttg cagcgaataa gcctgtacia 360
tcacccc 367

<210> 17954

<211> 416

<212> DNA

<213> Glycine max

<400> 17954

tattttaaggt tatgagagga gtacggtagc attattagt tcccagatgc cccggaagcc 60
catttttttaa caaacgggg aaggtgggtg ccacctact cgcccaggtg agctagggtg 120
cttcacctt aagcatgaaa ttgccagaa acctctagaa ggacccaaat ctgaaaatta 180
ttatttgcac cctcatttt actaaatata ccccccttt tacttacctt ttatcggaca 240
tagcaggaaa gtaaagataa gacactgatt tcgtccgcct tagccttttc cgtaattaat 300
ctatgataaa ttccaaaggt catcctttgc ccatcatggg gatttaattg atcttaatca 360
caatagtccc atccaaaacg atatgaaata attgactccc gtctttgctt tttctt 416

<210> 17955

<211> 367

<212> DNA

<213> Glycine max

<400> 17955

agctttggat tcaaacattt tccttaagag agagagagac catttcattc caacaaaaga 60
tcaaacacac tatatatact agagaaagag aataaacaca ccagaagtaa aacaaaactt 120
atttcttaat aaaacaatta agctccagag acatgaacct gcaggaagat tcagagcttt 180
catactggca atagcgcagg aggggcaaaa tagcattagg gaaatgtttg tcttctgatt 240

gtttgttggt tccaaaagca tctccatagt gatcactatt ttcagaatth gcagggccag 300
aatcttctct ggctgttgte ctatcattta caggatcagt aagcaagaca tcatcataat 360
tgattct 367

<210> 17956
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17956

ntgcgattcg ggccagacgc cagtgtcgag gacatcgatg acgacgtcgt gtgaggcctg 60
gtggaggtct tgccagaagg cggaatgggc ctggaggccc aggaactcgg ggggtcgagt 120
gggtgtgaagc gtgtagcgcg tgtcttcgta gacggccaag acggaatggg aagctcgaag 180
cgcgtgggct tgttgagggt cgagagtggc agcgaagccg ttgtaagcgg cgggtgtaggc 240
atagaggaga gagtctggag aagaatcgag tgtggcagtg taccagtcac ggtgcgtggg 300
gtgcacgggtg gaatcgtggc ggtgtttcat gtgtactatg taagtcttct tggtcgcaga 360
tagtagtggt agttggagga gaaagaatga gaagaaggaa agggaaattg atgac 415

<210> 17957
<211> 390
<212> DNA
<213> Glycine max

<400> 17957

cttaagcgac tgcattcgca ttctttacct taaggatatt tttttgttga ttgacttatt 60
ctttaaagga tatgtttgcc aactgataa agcttactgc aacattttgg gaattaaatc 120
ttagaagata agagatggaa agacaaaaat cttgtgttta ataaaaattt aatttaattt 180
ttaatataaa agacataaaa tatggattta agacgattac acatgtttta tatgttactc 240
ttttgttata aacattacat aatttcattg attaatTTTT ttaaaagaaa tcacttattt 300
ttttctgtct ctccagaaag ttcctttgca ggatgcattc aatactaagc taggagcatt 360
tttaaccatc tatatatata tatatatata 390

<210> 17958
<211> 357

<212> DNA
<213> Glycine max

<400> 17958

ataatatcca ttgattagat attatagaat cttcccaccg aagatagagg cgcgttttgg 60
tgtacataat ttttaaattt tctaaattcg taacgcacgc gtgttaagaa ttacctgaga 120
ttattaagtg tgcccaaaat gattttgggc ctatttgagc tataaccctt ccagatttag 180
aatgagggtgc ctattaatta catacttctt attcatttgc taatcctcat ttgcctcttc 240
gacttacagc aagagggttg tgagccccac tacttttatg cggagctata cacatattag 300
atatacggtt ctaatactc attactgaat agtaaagatc atttctaagc tcatcta 357

<210> 17959
<211> 371
<212> DNA
<213> Glycine max

<400> 17959

atcttcttat ccaagggtca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
gtggatgacg cctcctgtca cctcttctcc tttgtcttcc gctgcatctc catggtggat 120
aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180
gcaagcttcc atcaaagtgt atgaatttta aaatccaatc ctacagtctc ttgaattaat 240
taaattcggtt attattgggt ctgtaatttt atgtatcttt gacacactaa attcgattat 300
atcttgctatt tcattccttt agttatcttc gtcaattaaa caaacccatg atatttcgat 360
taaacttgta c 371

<210> 17960
<211> 376
<212> DNA
<213> Glycine max

<400> 17960

tgttgccatt agaagagaat gagcatgtga ttggaattat gactgtgatt gctagtcaat 60
ttgccaaatt gattgtgaaa gaatgcattg accgtatccc ggtgagagtg tgatccttaa 120
atcttgagag aaatgactat catttaatac tgatttttgc atgaatcttt gaagtatgga 180
ctgaatgcat gaaattgagg atgatgaagg ccatgtttga ttgggtagc cacttagcca 240

cgtgtttgaa tgatttatcc tttgcaccta atttgagctg aatgaattat tgattgattg 300
aaccctgagt ctatagagcg ttatcttttg ctaccttgac ttacgttgta tgagagcatc 360
attcacagaa agtgtg 376

<210> 17961
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17961

agagatctta tcttacatct gaaactatna aacccgactc caggcggagt atatataaga 60
tgatttttgc tattaacttg ctgcatgcag attgttggtg tcaactcgacg agattgcgtg 120
gtttagatgg tatacctatg ctacacaata taccatataat gtttgatccc tgtggtaagt 180
acagcatcac attgattgag acatacacia actggcgctt gataagagca tgaacatcta 240
ttacagaact cgggggttagt acatcgatga tcctatgcac atatcgctgg gtaccataca 300
caatacgatt atgacatcga gtgaagacaa gacactgtgc ctggaccatc gttcatgaac 360
tacaatgcac taatggcaag ctatatatgt gaatcatcag ttcgcataac tcaccttcca 420
gatgcgacta catagagtca aaattgacag tatactatcc 460

<210> 17962
<211> 371
<212> DNA
<213> Glycine max

<400> 17962

tttcttttcc aacgatgtcc atcatctcta caaagacatc accgccttga cgaacatgaa 60
attatagaac aaggaaaacgc agacctacct tggtaagctc gaacgattaa ttgctgatta 120
taacactttc atgcccttta cgaaagacac aaagacttct aataagaagc acatccagca 180
ctttatggcc cttgtccttg ctggtcagac attcctttgc tctttgctcg cattcttcta 240
atagcggagg gcaaagcaaa agtcgtggag gtcaaagat gaaccattca tgtgcaacta 300
tcgctacatt taggggcata ttaagtccat tgttgcaaca agacttgcca tcaaacaaaa 360
tctatgaatg t 371

<210> 17963
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 17963

tgaagcatg taacctacca tcatttcata gtcaatcacc agtgacgtgt ctactatcat 60
 tgtgatcatc tgctctcca tcattgaggg cactactcga gctggcaciaa ccgtccataa 120
 ttggatgtat gtctttgaaa gattcacgct ccttattaca cacgtacttg aatcccattg 180
 tattcgtaga catatcagaa tggcagtgat actgcctaata gaaggcgacc attcagtcct 240
 tccagaaatt gactcaagaa agctcctgat tagtatacca agtgacagtt gccccacaca 300
 gactcttctg gaagaaatgc atcaacaaat attcattttt ccagtatgcc cccattttc 359

<210> 17964
 <211> 142
 <212> DNA
 <213> Glycine max

<400> 17964

tttcttgtct ggacggggcc caagttatga ttgcccttgt tatgtaagag aaagtgttta 60
 catcccgaac tgggtatagg cttaaaattg gggtgtatag ctactctaga actgggcttg 120
 ggaaggagtt acaatggtgt at 142

<210> 17965
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 17965

gctatagagc tctttcactc gctgagacgc tgcattatct tatgcatacg ttccttaciaa 60
 gcctgagggc gcaattacat cacatcatta accttttgct caataggggc tattagaciaa 120
 gcagatggct gtgccacca gtaacgatga ttgattccca ctgtaactca caacgaagag 180
 tcccgttgcg catttgtcac tacgaggac cgtgctaata gcgttgagag aattcaagac 240
 gatgggcatg acggagttgg actatatatt gatgaggggtg atcatgacat aacctatgat 300
 attggtgaag atgactctgg cact 324

<210> 17966
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 17966

agcttagcct ctacgaacta ctaccaccca gaccattaga ttcgatactg agccttcac 60
 ccacgacgct tattaatagg cgagcatagt acatttacgg catacaaata cacaatatta 120
 tgctcatcga ctatttgtgt tacgatggac cagataatcg ggaggctcct aaagagggca 180
 taatctagca catttagact taccttatgg tatatgatta cgtctggaaa ttgctactag 240
 tactctactc atttcgcatg cctcatgaaa agctgtgctg tgggaattga tgtac 295

<210> 17967
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 17967

tgagcgctgg agactgcgcy tggctgttaa agtatagaga gactactaga ggaaccgcct 60
 cccgtggagg acgctgtctg aaacgtatct cttacttgac cgacgtagta tgacgcgctc 120
 gcgtcgcttc tatttatctc ctatcggaac ttcgatgctg ctgggatcgt atactcattt 180
 ttgctatata actgacaagt atacattcca tccttgagc tcgccctaaa gagccaagat 240
 cgcactaatc acgctgactc atacatatct ctggatctgc ctactattac tacatcgtgt 300
 tacatatata ttactcca 318

<210> 17968
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 17968

tgctttaaat accctagctt tacaattact tatacaacct gatggattga agatcaatta 60
 atattggctt tcaagggttg tttctcatca taaaaaaaag gaggagaaat taaatgtaaa 120
 acatgacctc ttgtacttta agacactact aaaaaaatag gtttttacga cgatgtttaa 180
 agtcggttgt agaaaaattg tcattgtatt agtttcggtg gcaattttgt aaatactgcc 240

cacatttcaa agacgtggaa aatcgttttt gaaatgttgg tagtaatcaa agacagtttt 300
gcgaaaattg tctttgaaac ttcatttttt ttcattcttc atttttaatg cctcatcttc 360
attatagaag cccacg 376

<210>	17969
<211>	435
<212>	DNA
<213>	Glycine max

taatactcat	aatcacatct	ataggactaa	ggctctttat	attttaatta	ctagataaga	60
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tcacacattt	atcattatta	ttgatttgaa	aaccatacaa	aagaacaact	tgatcaaact	180
tttcgtgtca	ttactttgga	gcttgtttca	aatcatataa	agatttacca	agaatctata	240
agtagtacta	tgcaaagaat	atccaacaaa	aacataatca	acagtctttg	gtccaatttt	300
ccttttttta	ttaatagggg	tggttaacct	tgctagacac	ccacacactt	taagatat	360
tagatttgat	tatctttttc	tccatagctc	aaaaggggta	ttttttaaaa	aataattata	420
aggtaccata	ttaaa					435

agctttagcc	tttcatttct	tggaagccat	ctacatcaaa	aaaatcaaag	acacaaaatt	60
agacaggtat	ttattcaaat	tagaaagcaa	aaaaaaatct	gaaatttaaa	ctaggcgctt	120
agcgagatgg	attcgcttag	cacgacttat	gaaaattaac	tcatacactt	agcgcgatcg	180
aggtgcgttt	agcgagttaa	cacagaaaac	tactctactg	cataattggc	tcgctaagcc	240
caattccaaa	acagaaaaca	atttgcgctt	agcgcatacg	gtgcccttag	cgcgacaaca	300
atactagaga	ataattggct	tagcgagcag	gctcgataag	cccaattcca	aaaattacaa	360
aacag						365

<211> 440
 <212> DNA
 <213> Glycine max

<400> 17971

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 ttaaaagccc gagggagtta tgaaacaaag tattaatatt ttgcttaata ccatatcaaa 120
 gagaagaagt aatgtgtgcc caagtgaaat gatgattggt tgcaactcta gtcacaacg 180
 ttaaagccca ttgcacatct gtagaaacta gctcccaatc aagttgcctt gttgatatcc 240
 aagaccaatg ataaacctga atttgactat attttgatgt gaattttcat gtcatatcca 300
 tgcattattga tatattttat ttggcaaaa ctcattggtt ggtattaatt tgtgaaagac 360
 atgtgcttaa gacgctaaat gtggaaaaga actaaaaatc atgaactttt tcacctaatt 420
 agaagatcat agtcaagggtg 440

<210> 17972
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 17972

agcttgtctc gctaagtggg agtccacttt ttgcgcttag cgtgacaatt cgtgcttagc 60
 gtgactccct ctatgctaatt tctcgcttag tgcactaatt cttgctcaat gcaattccct 120
 ctcggttgg aattgtgctt agtgcgctcc tcgcgattag aaagacatta gttgttatta 180
 tgttcaaaat cccaacgggc agaattgtga gaattgtctt aggaacctcc agacaaaatt 240
 taaagataat ccaatgggta acgaatccag gatcacgatt ttacagaaat aggttttggt 300
 aaaatctgaa atctcataat ttcaacttag ctacgcaaaa ctccacataa ctcaacatcc 360
 acattaagaa attcacacat g 381

<210> 17973
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 17973

atggatgagt tgcgtaaacg agccaaggga tacatttaga tggaggaaat gtctagattc 60

aggaataaag atagactagc aggacaaaag tgtgacaagc gagaaggaaa caccaagacc 120
gacttacaca agtcgaacaa gaagcacaag ccagacaagc attaacctct gttagtcgtc 180
atttacgact aacttttata ttgaagagca ctatgaaatc tatgtctttt cccaattta 240
tagttctttt tgtaagttcg tacatatattt tatgtttagt ttaattttta cacagtagat 300
attcccttca atgtgaatta atgtgttttc aacttcaatt tcaggtgaaa agatgaagaa 360
taagaagggtt gctttggctg gtgtctcact aagcgaggca tatgcgctta gcgagtaaca 420
ttcactaagc gag 433

<210> 17974
<211> 93
<212> DNA
<213> Glycine max

<400> 17974

agcttctacc gctgttgact atcaacaggg ggcgaaacga atctgataac ggctcaaccc 60
ctcaggcact tctatatgta tcgaatatgc gta 93

<210> 17975
<211> 399
<212> DNA
<213> Glycine max

<400> 17975

tgctagacat ggatcaacga gccggtgaag ctctttcttg catggctcat tccctagggg 60
atggcacacc ctctcacctc gtctccttag ccttcgggtg tatcagcatg gcggagacat 120
cacctttact acaccgtctt gaagaccaac catccaggct tcatagatgc gtcacaagca 180
agctggcata ggagccgcac attatcgcca tgacacagat gctgcatgg accattatga 240
aactttatgc agaacgggcg tgcattgcacc tatagtgaca ctcatcatac tatttttatg 300
gacatgtcac acggagggtt acgatacatg atcactattc aaggcgacca actggtacaa 360
aaatatggtg tttatcaatt cgtgctctat gcgagacct 399

<210> 17976
<211> 369
<212> DNA
<213> Glycine max

<400> 17976

atctttctag cttttcattg gtgtatcttg atctcctttt ggtgctctaa attgtgggaa 60
tgtgcttaaa tatgtggggc aatttttggt tgttttcttg cttgattagg ttggattggg 120
ggtttgtatg ggatggccct atgcctataa tgcattttga aacaatggga catgccacat 180
tgtccccgtt ctcttggtat tgatgcctaa acgcgcgccc accaagtgtt cggtgaaatg 240
cctcaatggc attagcgcgt gacttttgta aggaaacaac ccatggggca ttttggtttg 300
cacatatctt ctatttttct gggacgtgca ttcattctcg aataggctat agtgattgcc 360
ccacatata 369

<210> 17977

<211> 420

<212> DNA

<213> Glycine max

<400> 17977

tgtcatttgt gtggagccta ctacatcggt cttcttgga gctatttgaa gcattttctg 60
tgaatcatga agaacaagtt gaagcattcc aaaactgcaa cactgagtgc aagatctatg 120
agtgaataat ctatgtttta gcttgaacct tcataggag agtgacctat ttctaattta 180
tgcttataaa gcttgaata atcttagata gaagtgtgag attaagttct tgagtgaat 240
ccctcttggt agtggaata ttgtattatg tgcactcaa cacaatcta tttctctgta 300
aaatttttagc gttggctggc aaaggtgaaa ctagtggtg tagctagtct agtcaaggct 360
aagactgaaa tctagtgggg aactgccagg ttgttgaaac ccagtgggtt gctagttag 420

<210> 17978

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 17978

cattcttcat gatgaatcaa gaattgattc aaagaaggtt tgatgataat aaaggggatg 60
acaaaaagct taaaattcaa gaacacttca tgataacaaa gatgatgaat ctacagaatca 120
aagaatgagt tcaagattga atccagaaca cttcanggtt aaagaagaaa tttgatttca 180
agaatcaaag aatcaagttt caagattcaa gttccaagaa tcaagatcaa gattcaagaa 240

tcaagagaag acttaatcaa gaaaagtatt aaaaagggtt tcaaaaactg agtagcacat 300
gaatttttct caaacctttt acccagagtt ttactcttg gaatcgatac cagattattg 360
aatc 364

<210> 17979
<211> 425
<212> DNA
<213> Glycine max

<400> 17979

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tacccttaaa acagaaatgg catacaaccc cctccaataa atacaaacat caatgtaaat 120
ttagagcaag cttatgcgca tacttcttca cgaacgttca cttgcacaag acattcttat 180
aactaagaaa aatgcaccca tatacaatca aggcaccttc gttacctaga ttatttacat 240
gtacttccaa ggtgtatttg ttacctacat cacacacatt tcctttgcta aattcacata 300
catgcatact ctaagcactt tggctatcaa aaattgcata cgtgcacatc ttgtatttc 360
taatacctat acatacaca acttcatgat gaatcttgac tatctacaca ataagggtgct 420
acatt 425

<210> 17980
<211> 356
<212> DNA
<213> Glycine max

<400> 17980

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tttcttggtc cgcgctgggc tcgggggtggc ttggcatatg tcgatgttgc taacactgcc 120
ttcctcccta aaatccacct tgctctcaag gtggtaggtc ttacacagat cagaccacat 180
ttcccacgaa gtgtcttctg gtggctcacc ttcccactgt gtaagcacca ggcgagtggg 240
cgggtgttgc gactgggtcaa gtttgagtc tagaaagcac atgggacgtt gaaggggctt 300
ggtttccaaa acctgtaagg gcccaaccata atctgtagcc ggtggtggac catgat 356

<210> 17981
<211> 404

<212> DNA
 <213> Glycine max
 <400> 17981

aatcttccta atgtagcttc tcaacgaggt gagcttagct atgatgtgta actaagctct 60
 agcttctcaa ggaagggtgc tcaatgaagc ttctcaagga agttttctca agaaagcttc 120
 taaaggaagc tacctagctc tataaatata accatgtgta acacttattg taactttgat 180
 gaatgaaagt cttatgatat acacttcaaa gttccacttc ttacctctt ttattccttc 240
 aatttcgtgc tcccccttc tctctttctt ttctccatt aaagcaccct cttcaagctt 300
 cttatccaag gcaattcttg gtggggaagc tacttcttcc ttggcttatt ccttagtgga 360
 tggtgccctcc cctctgctct tctcctttgc ctcccgctgc atct 404

<210> 17982
 <211> 373
 <212> DNA
 <213> Glycine max
 <400> 17982

tgcttgatga attctaggta aagactgaaa tcaggacttt gcttcttaga tagaccacaa 60
 tctcttactt ctataccctc tagtttctat tccttggtca ttgttattat agtgatttaa 120
 atcatccaag ttccacatag gttacaaaat tgatgtaatg catgggagga acaataaaat 180
 ataagactaa gaagaaaaca acattgtctt attttttcta tcttcttttt attcactgtt 240
 gaagttatgt tctggaaatg tcctagaaat attagacagg aactgcaact tattttgtta 300
 tttcaaatga tccaaggtag gattgttaag ttggttcacg aatatttggt attaatagga 360
 agatctaaac cct 373

<210> 17983
 <211> 227
 <212> DNA
 <213> Glycine max
 <400> 17983

ctcatgcttc taacctacgg aatccttttc gggcattggt ggcgctacaa ctttaaaaac 60
 cagtgaaga cttcatcgtc catttcgata agcatgcacc attggtgaag ggggaggatg 120
 aaccgctcct ggagaaagtg tttgttagag ggcttctcca agagatccac actaaagtcc 180

agctctatga accggaatac ttgatggact ctatggacgt tgcttgt

227

<210> 17984
<211> 266
<212> DNA
<213> Glycine max

<400> 17984

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cctgactggt caccttatga ttttacttac tgagagtac ctgacatacc catttgtgtgg 120
tgtgttttgt tatgtactct taaacacct agtgtggttt tttactgata tgggaccaca 180
ttgcatatag gcttgagttt tataataatt gttgcataat gcacgtgaat tgtttattat 240
gaaatcaatg agtgttgtca tgcctc 266

<210> 17985
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17985

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agggtcagga aaaaatgtga tgagctgaaa gatataca tgaccacggt ggaagcggtta 120
gagtgggaaa taataaaaag gcccgaagg agaattggag caggaacaag ttccaagggg 180
ctttgtgggg tagcattaag gagctcaaac ttataaaggc cgagagggac aaatcaagga 240
tggaagcat ggtgttagag gataaatcaa agagttttca tagatcgaag agaattntga 300
tggaacagtt gagcaaaaca gaagagaata tgttggaat catcaatgaa tataaagaaa 360
aggatgaacct atccgctagt .catgggtaga ggctggaaga tgaacgacac atgtatcgtt 420
tctgt 425

<210> 17986
<211> 356
<212> DNA
<213> Glycine max

<400> 17986

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 cttaccctcg gaagcaaaaa agaataaac ggaaattttc aatctaaaaa gaatagaagg 120
 aaaattttcca atgaaagcaa aaaaagaaaa gaaggaaaat tccccattca aagagtggga 180
 gaaagctaaa agaaaagaaa ggaaattccc aatcaaagaa tgggagaaag taaaaaagga 240
 agaagaataa ggaaagaaag ctctgatca gggatcgaag gataaacaga agaaatgtgc 300
 tgagaggtct ttagactgga caatatctga accatacaga attggcacca catgaa 356

<210> 17987
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 17987

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 ggaaggatct tgaaagccta agtgggccac attgctattc gtaccccccc tttttactaa 120
 atgcaccccc atttattttt ttggtaattc tttttctgta acgttacgaa actttacgaa 180
 tttcgtaacg atacttattt tcttccgca aggttacgaa tccttacgga ttatgtattt 240
 actctttttt ggctttcgaa gaagttacgg aaactcacgg attgcgcaaa aacacctctt 300
 ttcgatttcc gccacattac ggaatttcac ggatcgcgca agcctgcttc cttttgatnt 360
 ctgacacgtc tcgggtcttc atttattgtg caacacagga cgccaagtat ct 412

<210> 17988
 <211> 367
 <212> DNA
 <213> Glycine max
 <400> 17988

ttcttttgca tgtgtaggaa gttatagaga gagaaaggtc caagttcccg agagttctga 60
 aagattttgt tgtgtgaaga tctgcagaga cgagagctca atgcgaaagc cattctaaga 120
 gctttagatg agtttgtgag tgactgtgag atcctagagg tgaaggagac atcctcacca 180
 cttgtatttt ttcaatcttt caccttggtc ttctctgtgt tgtaaaggag gttccagac 240
 tatggaaagc taaatcctct attggatctt cctgtaggt acctgatga agctccattg 300
 gagcttgtaa gcctaggatc ttcttcacat atggattcct tggtttattg gaagatgaat 360

ggcagcg

367

<210> 17989
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17989

tctcactaan agggcaagga aggacgccgc aagttatgga tctagtgcag cccacaagc 60
agagattgag tttgacggac accatttttg aagtgaggag catcagcgcc gcttcgaagc 120
aatcaagggg tgggtcttttc tcaaagagag acgggtcaaa gtccaactaa gggaggggga 180
atacataaaa ttccacgagg aggtttcctg gaggcaatgg actcaactga cagagcctat 240
ggctaaatat gaccagaga tagtcatgga attctatgca aatgcctggc ccaccgaaga 300
aggagtcatg gataagcgt cctgggtgtg gggccaatgg atcccctatg atgaagatgc 360
tatcaaccag gtctggggc atccattggt tctag 395

<210> 17990
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 17990

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gctggaaaga attccagatg ttattggcat caatgatgct ccaagtgttg gtgaagataa 120
tctgaagtt tggcatgttc aggttaattag ttatctaata atgctgaata aatattttga 180
ttttctagaa gcaattattt tctcatttac tctaaaatga aattatcgat tatgtctact 240
ttggaatgta gatatttcgt tcaattgatt caaattccgt taaggggttt ccaaaggatc 300
caaaagatgc aacgagcaag gtgaatgaaa agccttgtgt ttcaattntt gtttgcaga 360
cttggtttta cctatcaaac c 381

<210> 17991
<211> 434
<212> DNA
<213> Glycine max

[illegible]

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<210>      17992
<211>      380
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      17992
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gcactcaagg	gtagtgccgt	aaaaggttac	tgacatgtga	aggaacgcan	aactagtaaa	180
acataattct	ctcgcttcaa	taaggaaccg	tgaattgggt	catgcatacc	aattcacatg	240
acatttttaa	accggtttgg	taaaatttag	tgaattcgtg	aaagcaatga	atcaggaaac	300
atcacgagtt	tgactttgga	actcttaaag	aacataaaca	gctaagcttg	ttagttgtta	360
cagagagaaa	gagaggattt					380

<210>	17993
<211>	423
<212>	DNA
<213>	Glycine max.

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gatccattac cttacatctt aagatttttag gggaatcagt ccttcacact gaacttatca 120

ttaaaaattg ttgtaattgg gacttggttt cattttcatt tgataacttt tatttacata 180
 tgggtgtgctt gatgtctaatt tcttggtaca tacattttga acatgtttta gaacttagac 240
 accttgtgtt tcaagttatt caatacctta tttaaaaatg attttttttg gcttcttata 300
 ggtttgttcc atgtatccaa attgattggg tgtgacattg aagatctcaa gttgatacta 360
 tcaactcgca aaatgaaagt tggtaatgat aatattgtcc aaaagttgac gctatcacag 420
 gta 423

<210> 17994
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 17994

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 gcacaacaag ttttctctt ccacaatgcg cgcataaacc caccatcccc tgatgccac 120
 ctccaactga gctcacgtac tcccacgtat cccatctctt cgattctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattga aacagcataa 240
 gctatcacag acaagcaaaa cagagcaaag gcagaaaact ctgctcaaca catcaacca 300
 tatcacagct tttctcactt aaagaccaca gtaacaattc ctttgatcca attcgctaac 360
 cgttggatcg 370

<210> 17995
 <211> 259
 <212> DNA
 <213> Glycine max

<400> 17995

agccggtttc ataaatatta tatgtaataa cctcctgggc tcccgatttt gtttacctac 60
 accaggtgta gggctctggg gacatgacac gatatacgcc tttataggga gtgcttactt 120
 taaaaagaca cccaatagat gtgccacatg atgatgtggg actatgttac agtcactacg 180
 aggaccttgg acacgatagg cctgctgtc catgaatcca cagtttctca tgaacgccct 240
 tatgactttt gggtacatg 259

<210> 17996

<211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 17996

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 agaccaacat cttttcacaa tacagtgttt ctgatatttt tgactcagaa atttccattc 120
 atctcattgg aaaagtccaa cccacatttc actgtatatt agattcaact tcttgatata 180
 atgtgctaac gaagcacaag atttagactc atgatattga gttcgggata ctcagaaatt 240
 taatctacaa tgggcattnt gttgaataaa aagcaggcaa aaattaaaat gaacaaaatc 300
 atgccaataa taactataga acattagaca aactgacaa acttagtcgc attagccact 360
 aattgaataa cagagcttag 380

<210> 17997
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 17997

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 tatggcagac tctgtgctct tctgggttaga catagagacc tgcataaatt gaactggagt 120
 cttttccatc ttcgtggtgc gatcatagag actacgtcct tgttggttgcg accttatgga 180
 tgatcccccc tggctcttat tgaattgatt cccaagatgg ttcttccatt gtgcctgttg 240
 taggttgcat tgctgtccat gctggaatcc agacaatcca cctgcattaa aattgtttct 300
 aagctggttc cccgtgtaat tgacttcatg tgtgacttgt tcttcattag ggatacaata 360
 tccagatgca tgagctccac cacatagtgt acatcctgca acctgcgtaa cagaagaatg 420
 tgatgtatg 429

<210> 17998
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 17998

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[illegible]

<400>	17999
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<400> 18000

<210> 18001
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18001

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 ttacaaaaat cacacaagtt ggatgaaaaa tcacagtcca ggaaaataac agagaaaagg 180
 aagtgcgctt gttgttttag ctcataattt tttctataat tggagcctac tttataccac 240
 tcctagtctt gaaacttcaa ttgataataa ttatgaaaac aagtgcccaa aatagagggtg 300
 tcttgagtct ttatttcgat cttctttgat agttgttcta ctctactcta tagcctttct 360

<210> 18002
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18002

tgcttataag aacaaaattg cctcaatcat ttccaaatat gcatgtgaat taagacgcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaatg 120
 attatgatga tggatggctc anattctcac aaaggtaaaa tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240
 aacttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt caaagaaaaa 300
 catgcaaagt cgtacgtgca cacaaaattg acccanaata ttaaactata aatccgacga 360
 aactaataac atta 374

<210> 18003
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 18003

catatccaag gctgatggat cgggttaaac tccttcttcc atggcttatt cgctactgga 60

[illegible]

<400> 18004

<400> 18005

7545

<210> 18006
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18006

agcttgccat gatgcttgga atagtttata ctttgaagat aaccataacc atgatctgat 60
 ttttaccac tccatcacct tttcatggcc tttactgcca ttattaaaga taatggagtt 120
 tctatgaagc caaataatcc aactcattgt gcaccacaca acttcccatc tttgatttgc 180
 aattgatcca actctcagta tatagtgcta tagatagtga tcttgcggtt gggtatgttg 240
 agtcccatg actcccaacc atctaaaaca caaagaccac acttctctgtg aaaaagtgc 300
 accgacgaag agatgttgta cactntccaa atgctgagag cacaaggcgc acaaatagtt 360
 gttgtttggt cg 372

<210> 18007
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18007

tgagatgagg aagtgttgaa gggtgaaact tccttctttt attgttgacc acagagtgg 60
 acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcaggtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcgggtcag tgagaacctg 180
 tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240
 aagcaaggag gcttgtggtg gctggccagc tgtgaaactt gattgatatg tgagatatgg 300
 tctctggtaa tcgattacca aggggtgggta atcgattaca aggcttaaaa atgaagacag 360
 ggggctaaga tgggtctctgg taatcgatta ccaggggatg taatcgatta 410

<210> 18008
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18008

agctttaagt tgcaattgtg ttccatgatt tcaacataat tgtaaataata catcttaatg 60
 ggctctcttc cctcttccat tgcttcatca ttttaagtaa atttgttggt cttctagcct 120
 tcaaaaatcg aatatgggtt aatcttactc gcctcatttt gaaagtatta tcaaacctat 180
 cttgttcaaa aaagtgtgtc aacatttacc ttgtataagg ctccgacctg cacgctgcat 240
 tgattgtgat ggttctatta aattaacttt ntctaaagat tttggccaaa cttcttgag 300
 tgccctacat catcagattt ganaggcaat anaaaagttc aaaaacatta ataaaattat 360
 aatatcaaag tt 372

<210> 18009
 <211> 348
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18009

aacatctcca gtgttaattt tgcccgaccc taagagacca tttgaagtgt attgtgatgc 60
 aagcgggcaa ggcttggggg gtgtgttaat gcaagaggga agaatagtgg cttatgcttc 120
 acgccaattg cgtctctgtg aagttaacta tccgacctat gatttggaa tagcagctat 180
 ggtctttgcc ttaaagattt ggaggcatta tttataccgt actggttttg aagttttcag 240
 tgatcacaag agtctcaa atctgtttga tcagaacgaa ctcaatatga ggcaatgaag 300
 atggatggag ttctcaagg attatgattn tgggtctttcc taccatcc 348

<210> 18010
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18010

tatcttcggg gacaggcgtg ggtttgtttc agtgaagtca ctgctgcaag caatgcagtg 60
 cgacaaatgc aaaacttccc tttctatgac aaacctatgg taattgtag attacactta 120
 tctagtattt attattacac cgaaacttat gattctgatt catatgtaat tacctaattg 180
 taatcaactt atagtgtgtg tgataatttc tttacagttc tggtcataac tctattatat 240
 cttgtaccaa actttnggaa ccatttctag taaccaatgt tatcttactg ttcttttccc 300

cttttatctt gtatgttcta gattctctta cttggctact agggatttat gttcgtgccc 360
 aaaaaatac 369

<210> 18011
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 18011

tgtgaaggaa taccttgaag ataattccaa accattagta attgaccgta actttgtgat 60
 tgatgcgcta ccttcgggaa aaatcaatga ccttcgcaaa aatataaagc tggtaatggg 120
 cgttggggtt gcaaaggagt gctacgaggt gtactgtaac tggaggaggg aaagcttaaa 180
 ggagtgccta ataaatttat taggcttgcc agagattaat gtggaggaga aaagtagatt 240
 gttggaattt gaaaattaca ttcttagaag acgtattgag gctatccagg tcgctcttgg 300
 aacactaatt cccagtgagc gacgactctg tgatagcgtc ttccaggggt tctcttatgt 360
 ggctgatctt tgtttcactg atatttgctg gggaacctca attcaattgc tgaa 414

<210> 18012
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 18012

ttcttgagg attatggggg acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
 gcaagacaat tctccacatc cacaaatcac gtataaacc accatccctt gttgcccacc 120
 tccaactgag ctacgtact cccacgtagc ccttatcctt ggtcctctca acgcagggtc 180
 cccatcaatc ctccaagct tccacaacat ccaagaaatt caacatccaa tcatcacaaa 240
 ctgacaaaac caagcaaac agggcaaagg cagaaaactc tgcccaaac tcaaaccaaa 300
 aatcacagct tgttctcact taaagacccc agtaacattt ccttctttgc aattcggtca 360
 ccgttgatc 370

<210> 18013
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18013

tatccttatg gcttgccttc ggacttcaact cccctgtgcc ctctggaaga ttttaagccaa 60
 gccctactt ctgaggggca actcccgctt tatgacgact atcccgggca agacgatgag 120
 gaaggagata cccatctcgg cccctgtctc cacctcaaag atccgtcccc acatgaacta 180
 ccccaaccga acatagtctg ccatatcccg gcctcaccca caccogtaaa agaatctgtt 240
 ccttcgcgg aagataaggg aaagatagag gcgcttgaag agaggttaag agcagtcgtg 300
 ggccttgga attaccatt cttagattta gcggatttat gtctcgtgcc caatatcgtc 360
 attcctccca agttcanagt gccagacttt gatacgtaca aaggagacgac atg 413

<210> 18014
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 18014

tatcttatga tgattcattc tattactcct tctcacagtg gtgcctcaac accgaagctt 60
 gcatattagg tgtataattt gtagcatgga gagagggtggg aaagacgaat aactgtaagg 120
 tcattgtatg gttttttttt tgggtggatac aggggattct agtatacata cagactacat 180
 acatatatag tacatatggt acattgatag tgggtctttc attgcttttg ttgccttttg 240
 gtatagtttc tttggctata accaatgtta tatttgcaag atgtacttga gtacttcttg 300
 gttagtatac tgtgtacttg ggtacttcat gtgcaatgtt ttctctttca gaataattta 360
 tagtcaacaa gatt 374

<210> 18015
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 18015

tatagcccca agaccattaa acatagccaa caatgtagaa ctaatcgttt ttgaatctga 60
 ctttctttca tatggcctat aaggtcacgc ctctactggc aacaacaaat ttgcaagtg 120
 ttaatgcttg gctttttacc aatccaaagt tcataagggg ttctgttaac tgctttactt 180

gacaccctat taaggatgta aagtgtgggc tttaatgctt atccctaaag tgactctgac 240
 aaagaagaat gactaatcat actcctcatc atattcttaa gtgcaaaagt tttcccgaca 300
 tagtgtattg cggaacaatt tcagactctt tgaggaaaag tgcaaaaggc cccagacgtt 360
 attctattaa tccaccatat cttccatagt actcaccacc acgatcagat gtggtagcct 420
 taat 424

<210> 18016
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 18016

tgcttgccct tcttgacga tctgcactaa gacaagaggg gagggaaata ataactactg 60
 agtttaaaca gcattctcta accccaaaac caaaagaagt ttcacattgt gcttcttttt 120
 atctgccata ttagttgcat tcaacttgca aataagagag aaattacaag tctgcaaaca 180
 tactcatact cctctggcat gtttttcttg atttctgcgt tatgtcatac catcacacac 240
 ccctgcggtt atctcatcaa gtgcacgcca ttgtatctaa cttatagata gtaagtcaaa 300
 atgtgtacat ttgtcaacct atttctcgtg aaataaatag catgactgta cacaaccata 360
 aacttaagta tgacactaac c 381

<210> 18017
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 18017

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 agaaccaaca atcatthaaca acaactaacg taagtaatca aaataaaaact ttctaagtcc 120
 tctaccctag gggtcaaaag cgaaaatcaa caagagaggg aaaaaagata acttacttgg 180
 aattgcaaga gtagagtgga caatgaaagg cacgtagagt gatgaatagt gcaaatagaa 240
 ggtggaatga gatgcagtta tatgaatgaa aatgtaactg cctaaggcag ttatgatctt 300
 cttttgcagt ttcgatttgc tcgctaagcg cgagtgtctc gctaagcgag aactctgtga 360
 cattagaatt ttcagaatcg gaattcatgc gcttagtgag atagactcgc ttagcccaat 420

tctaaaatat. gtg

433

<210> 18018
<211> 342
<212> DNA
<213> Glycine max

<400> 18018

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tgcaaagatt ggacctcttg ctagttgtta ttaatgaata cttaaactact tatgcgtgag 120
ggaaacaatg gtcacgagac tgtggtttta gcttctttcc ttgatatacta tcttatgcct 180
aacttcatct aatcggttcag gctacatttt attcttttct ttggataact acatgccttg 240
taaaagagaa gtgatgaggt gcattacttc attctcttat catgcaatca tgaactcttg 300
ttgcatacac ctttgtacat agtcactgca tggtattgtc ac 342

<210> 18019
<211> 511
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18019

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cccccaagac aggttgaact ggaacgctga aacatggaaa cccacggcgc tggaccacaa 120
ggagaaaagc gtgtcaagga tgaccttttg accagcagga aataggctct aagaacatga 180
gactccaact taacaccaag gacgcgcccc cttttaagc aagacataca catcccgcta 240
cggaatatcc cgggggaatg ctgttccttc ttgatccaag ctaccgaac atagtctgcc 300
atacaccaga aagcaccac gacagaaaaa taagcgagtc acttcgtgga taaactcgga 360
acacaaccag cgcaacgaag aacgtgccaa gcgtatgggt gacggataaa ttctcgcttc 420
aatgaaaca aaagccagcg ccgtaacaat tgggcaagac taccagccc cataagccag 480
aagtcaaatg actaactgcc tgcacatcta g 511

<210> 18020
<211> 379
<212> DNA
<213> Glycine max

<210>	18021
<211>	219
<212>	DNA
<213>	Glycine max

```
gcctactat aaaaagtac caaaaaacaa gcatacatc caaacgtact aaggtgcctc 60
ctactcacgc ttttctaacg tcttgagcta gactcctgat gactcgccgg tcacagacct 120
agtacgttgc ttacatttgg ctttggaagg ggacacctat tggtcgtcca tgtgtcatat 180
gcaactctct aacctttaca tggatgatct gatgtgaac 219
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<400>	18022
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$\langle 210 \rangle$	18023
$\langle 211 \rangle$	662

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18023

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 cgggtcaach cccccccncc cagaggagag ttganacata gaatacgcaa gagacactat 120
 anaacactac aagcatagtg acagcgctac tataagtgtt agacagcgga cgacttgcaa 180
 ctctctgtga ctgattgatg accttacatc gttatgaggg agatcatatt gaatctcgat 240
 acataaacta ggcgactgtg atgtcctaga gttgttgctt gcaaagatac gatagaaatg 300
 ttcggcgcta tagctcgccg tgcagcatta gctggcactc ttgcaatgct acactctaaa 360
 agacatacta cagtgtgata tactattaat caacatagac tcttagctga actagagcat 420
 gaacagattc taaacatacg agaactgaga aataaaaaga attgacataa tatacgacga 480
 gaccattaaa caccatttga tagatcaagc attatatact gtatatgtag agcacacgag 540
 agatgccatt tgtctctaca ttcgcgggtca ctcataggat gctattgaat cacaatcaca 600
 atctattgac tgatcgattg acgacgacaa tactgaatac gagaagtgcc ttactgaagg 660
 cg 662

<210> 18024
 <211> 365
 <212> DNA
 <213> Glycine max
 <400> 18024

tgcttgccct tcttgacga tctgtactag gaccagaggg gatgggagaa gaaaatgctg 60
 ggtgggcca tatttaagga gagtgagccg gtggtagcga agtcaactca tgtgtggaaa 120
 ccgagagtca ttggccaagc ttgtaaaatt acaaacggat ccatgcatga ccaaattgggt 180
 ggcgagctga agtatgaggg aaaggtggat gatatgaagc gtctaagtaa agctatggtc 240
 ggcgttgtga tacatttcgg ccaatcttat cttatacaag aacattttgc tatgcaaggg 300
 gtgtctacaa ctttagttac tcccttagga gctaacatgg ttctcttaga atgtagtggt 360
 gatga 365

<210> 18025

<211> 346
 <212> DNA
 <213> Glycine max

<400> 18025

taccagaaca gcccatgctg gcaccgagtt ttcattaaaa atgagtaatg catcacaaaa 60
 ttaactagaa tttttattaa aaaaaatcaa atactaccgc gtgagatgaa caatttataa 120
 aattgacaaa aataatgatg aaactctgaa ttttattctt ctgtggacca ctttatttga 180
 ttttgagagt atgctctgcc aaactcatct cattcgattt tactaataga ctaatatcta 240
 ttttgttatc agatactttg gggatgaaaa ataaacaaat aaacacagtg ctactgctac 300
 cactacatac gagaaaagga aatgatataa agcggaatcc gagaga 346

<210> 18026
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 18026

cttcttctaa ccaaattggtc ttaccttggg ttaattcctt tgatagccct ttttaacctt 60
 gtttcccttt ccttgggttg aagctcacta caagccttaa gtgaaaaacc atgatattac 120
 catatcctta acgaattttg gagcttttgg attgggttgg ggaataagtg tggggggggtt 180
 ttgtttcatt ggacaacttg tttgggtggt atgcttcatg atgtattttg ggccatactt 240
 gatgtacatt gcatattggg taaatgttgg acatgctgaa tgaaatgttg gttctcacag 300
 gcaaaaaaaaa aaaaaa 315

<210> 18027
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18027

aactcaagct tgtaggatta ggggggtatac atcacatgtg ggactttgng gcggtcggga 60
 gatggtgcaa aacaattttc cacatccact aatcacggat aaaccaccca ttccctggtg 120
 cccacctcca actgagctca cgtactctca cactagccct tattctagta cctctcaatg 180
 ccgggtcccc ataaatectc cgaagcttcg acaacatcca agtaatgtaa cgtccaatca 240

tcacgaacta acacagccaa taaaacaggg caaaggcaaa aaactctgcc aaaacacaaa 300
 ccaatatcac agttttttcac attcaaatac cccagtagca tgctcttcat tcatattcgt 360
 taaccgttgg atcgac 376

<210> 18028
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 18028

ttctttttct ttatgatttt gatctgaagc tattgtatgg cattcacaag gcttcatctt 60
 ctggcgccat gaagcttgaa cccaaagctt ttggtggcaa atttcttgcg caggttagtc 120
 tctttcattt tctgtcttaa ttaaattatc ctgatcctgt cgttgattaa tatgctgatg 180
 gctcatggct aacaccttca ggtgcgggtc aaaattgctt ctgattgtgt tccattacce 240
 gaaagcattt tcaaaaaagc catcaaggat aattataatg aaaagcaciaa gttcagaaca 300
 gaacttaccg ttagacaagt aagaattaa tgtaacctct ggtggcctgt ctgtctgttt 360
 ctatcattct 370

<210> 18029
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18029

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 gggtcaaaac actctaaata ttagtccaat taatcaacat gacgaagcac agttttcttca 120
 caaataatcc aaagctcttt atgaaataaa aaaaaatta cagctagaaa taaactattg 180
 aaattgcttt gcaccttgat ccagacaaca aggccattgg attcactgcc aataaatttc 240
 agtccataaa atgctttctg actgcactgc tgtctaagct ctcaagccac caacaccgat 300
 tcagaccac cttgagctcc tgtgagagct atgtaattat tgcttacaat gaatattact 360
 caacatgtat tttattattg gtcaaatga atatctcttc ataaacgata tgcacatcaa 420
 tctagcatat 430

<210> 18030
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 18030

tttcttgtga gaatagtaaa aaaatcacgg agatttattt ttaaactt ggagaattaa 60
 aaacaagaac ggattaaaat tacctgggtg tggtcctctt tgtattacca tcctctagac 120
 agcctgttga aaattttaga ggcttgtatt tacgtatttt gctttctctc accacaagtt 180
 ccgtaatcac cctaaaagta agatattgct cctttcttaa gagtgaaagt ccattctttc 240
 tcattttcta ctaatttatc tctacagaga aagcatttta tgctttgaag agaatgcaac 300
 caaagacaag aaagattggt gatcgtcgtg cctcaaatg tccgaagata aggtattgaa 360
 agattact 368

<210> 18031
 <211> 52
 <212> DNA
 <213> Glycine max

<400> 18031

caagacacgg cgcggaaaga gagaaacca agtcccgaca cgagaaggca ca 52

<210> 18032
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 18032

ctaacttga atttagagcg tctcggtata ttatttgtct ctatcagaca tgcgagtgtg 60
 aggtgattgg cgatagaatg tcctcgaggg ttcagaagtg aatttccagc gtggacatat 120
 attacaggac tcaatcaaac atccgggcga gaagttattg ctgttagatt agccttcagc 180
 ttcacaattc ttttgcgac gatctacata ttacgggaat gtatcagaca tctgcgtaaa 240
 aagtggttgt gggttgaat ttgtcgaaag cttagacatt atttttgcac gacttcgcac 300
 attgatgatt agaattgggc catacaggta aaagggtatg gtcggttgaa tat 353

<210> 18033

<211> 372
 <212> DNA
 <213> Glycine max

<400> 18033

ggtgtagcgc tgcgatctac taatatatgg aactttccat tgctttgcct gagaataaca 60
 attggttgac cacaacagcg ctgggggcg caacggacaa tggactttca aataaacatg 120
 ttggacatga acaaacatta tatcatgtgc tgaccgcgcc aaacgaacca gcgaagacat 180
 tgcataattg atacactaac tatattccat gtacctgaac aaaatgattt ccaaacacgt 240
 gaccgacaca tatgatgcgg tggccataac agtcacgtgg tggttgacta ctaagaggga 300
 aaaatgacat gctttgttgc tgagacaact atacaaggat cactctttac cgggagcaat 360
 cacatatccc at 372

<210> 18034
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 18034

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 tgtggtggtt agcatcaa at aagatgaaaa accaaatttg ttgttatctt tggttggaag 120
 agagaatgtg actagaatta acctatatat ggtaaaaaaa agtgtagtac gttaataaag 180
 attataaata tcttatttat tttaattata aatctttggt attatccact taagttacat 240
 tattagataa atagtataaa ataatttta atcatgttaa ataaagggtt gataaattgg 300
 gtctcccatg gtataattat aagttgactt aagtatatat aaaataaaat tatatcacca 360
 gtttataccta 370

<210> 18035
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18035

taaagttggt aacccttgct aactccatat gttagtttgt cgngcccatg gaaataacca 60
 caacatgcat aagtttttagt caaatatattt agctggttga aaaggtaatg aaatggaaga 120

[illegible]

<400> 18036

<400> 18037

cagaagac

428

<210> 18038
<211> 379
<212> DNA
<213> Glycine max

<400> 18038

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taaaatgtta ctgtcgttta aatatgctta gctctccagc tttaaatttc gagcgtctcg 120
atatatgacg ggactatatc agacatccga gtaaaaagtt attgtcattt gaatttgctt 180
agagattcaa cattcatctt cgagtgtctc gttatattac gggactcaat tatacattcg 240
agtaaaaagt tattgtcgtt tgaattttct cagagcttca acaatcaatt tcgagcgtct 300
cgatatatta cgggactcaa tcaggcatcc gagtaaaaag ttattgtcgt ttgaattggc 360
tcagagcttc aacattcaa 379

<210> 18039
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18039

tcacaccaca gcaacacaaa atctaggtgt caaaacccc tcattttaat ggattctcta 60
ggcttgagaa gtgaaattta gaatgaggta aatttgaagc aaactctcac ctacacaaag 120
tccataacct caatctaaac ttgctcaaac tgaatttaca cctaaaattc caccgaatca 180
aaatttgact cttcaacacc caattttgcc ctagaaatgg ctctttatc actttgatca 240
tttgtttttc tctctagcac aggccaaact ttctcccaag tcctaaatga catttcaagc 300
taatattaac nnnngagaat cttcatatac cacagagttc anacntncc nnnncnccct 360
caaagcctca ctctttttgc actcataaca tcacattctc actttctaac cctacgttaa 420
ctctaccatt cat 433

<210> 18040
<211> 378
<212> DNA

<213> Glycine max

<400> 18040

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aggagtctga gctgcggtg ttcattggaga tagagggttaa taggaagctt gaagaggagc 120
tgctgatgta caagaaggag actgtggaac agcatgaaaa gggctttcac aaggctgcta 180
ggtaggtcgg gttctttgtc aaggccctta acttgggtct ttttgacctt ttcaaggaca 240
tgaaggacgg tgttctgctt gacgaggaag atattgctgc tgaggatgac gctggtgacg 300
agcacagcga tgattgcaat gtttacgttg ccttttcgtt atttccttct ttgttgattt 360
tggctaccat ggctatgt 378

<210> 18041

<211> 328

<212> DNA

<213> Glycine max

<400> 18041

gatgatgaat cacgttgatg caagtcgtct tgatgatgtt atagatgttg acaaacaggc 60
cacagaatga ttacaagatt ctgctcccat gttcaggatc aagatgattt tcacgtttcg 120
tgatgggaaa tcaggacgat tcccgactca ggagaagttt gatctcaaga ttcaacagag 180
ggacccttct atgattctcg ataagagatc tagacgactt cgcaaggga gtagtgaact 240
gattgttcag aggtctagca taccacagtt tgcgggtgaa aggaatgtgt ctcataatat 300
tctaacttac ccgagattct actctctg 328

<210> 18042

<211> 380

<212> DNA

<213> Glycine max

<400> 18042

tgcttgagat gaggaagtgt agaagggtga aacttcttgc ttttattcgt tgaccacaga 60
gtggtacctg gagatatgtc acgggggtca ggagatcttg gggacgtcag gtggggtgct 120
attgccccaa accaagcttg accaatcccg acccaacccg ggcatagtca gccagtgaga 180
acctgtgatg tacctaaca tgcgaggtcc tgacagtcaa cagataaaag gaacaaagac 240

cacaaagcaa ggaggcttgt gtggtggctg gccagctgtg gactttgatt gatatatggg 300
 atatggcctc tggtaatcga ttaccaaggg tgggtaatcg attacaacgc ttataaatga 360
 agacaagaga ctaagatggt 380

<210> 18043
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 18043

ctcagcttgt ccaagtagcc ttgggcatgg catggaggga atagccattg tcaacaagca 60
 ctgtggccac tatgtggtct aaacatttga cggatacatg cgaggctctg ttggccgtga 120
 cgttgttgat tatgccccta aaacactcca tacatatgtc ttgagctatg tgggcttcgc 180
 tcaaaatctt gaccaataac gctcgatgag gctcaaagtt cataagcagt cccaacagat 240
 agatcctagc tgggggtttta tttatttgtt taatcacctt gaactcgctc tgctggatga 300
 ttctcacgaa ctcggttgct acatctgagg atattccctt tttgctgaag atgacctcta 360
 tcttgaaaaa ccttccaacc gggacctcgt cattagaaat caagccccgcc ttatcactct 420
 cttccacgcc cgcc 434

<210> 18044
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 18044

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 tcgttggtgt tctcatgctt agcgtgactc tggctcgctt agcacacata agtgaatttc 120
 agcttatcgc gcgtcttctc gcttatcgaa agcatgcaag cagtgcgctt agcgggatga 180
 gccctcgctt agcgcgtgtg tccagctcat ccttcttcca gattcttcct cacgctcagc 240
 cgtaggagtg gtgcactcag cggatggctc gctaagccgg cagattggct tagcgagaag 300
 ctaaaaatta gcatttcaca aacttgcccta attaacctga aattataagg agatgattat 360
 taaatacaca acatgtgag 379

<210> 18045

<211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18045

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 aaattgggtg ttgaagagtc aaatTTTgat ttggcggaaat tttaggtgta aatccagttt 120
 ggacaagtct aaattgatgt tatagacttg tgtgaggtga gagtttgctt caaatttgct 180
 ccatttctaa tttcacttct aaagcctaga aaatccatta aattgagggg ttttggacac 240
 ctacattttg tgttgctgtg gtttgaagct tgactttggt ttatacatga ttgatacatg 300
 atttgggact tggaggattt gatttgggca agattggatg aagggaagtg tgattttcga 360
 aatctgcact tatgcagaat tctgctgtca aaataggtgc agcaagat 408

<210> 18046
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 18046

agcttgtgaa aacaaaaaag tgcaacacat ttgatatagt ttataggctt ctgaagttgg 60
 ctctagtctt gccagtagca agtgcaagtg tgaaacgtgt tttttcagct atgaagtttg 120
 tgaagagtca actatgtaac aaaatggatg atcaatgggt aaataatcgt cttgtaactt 180
 ttatagaaag agatgttctt ggaacaatca acaatgaagt tatttttagct cattttcaaa 240
 aaatggatag tagacgattt ttattgtaaa tacatttctt taaacaacat tattttctat 300
 tttcaatata ttttagtcta ttagtctttt tatattttac ccacactgat atttattgtc 360
 tggatccg 368

<210> 18047
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 18047

tcattagaga atcacaataa caacaatact accatatcgt ttaccaccac tatcaatgtc 60
 agagagcaca ttctcagaca taaagcatag gcgttgatgat gccgtcacca cctcaccgcg 120

gtttcgtctt cttgaaacca aatatggctt atttgtcacg aggtatggag aagatgaaac 180
 acgactaagg tgatgacagc ataacgctgg aatgcgatga acagagaaag agtgagtcac 240
 tgaccagaaa cggagaacac cctaagagga agaaagagag aacaacaatg cattggcgag 300
 aagatggaag agaaaatgga aatggaaagc gtgagaagag gatgaaggag aataggcgag 360
 aaatactaat ggagagacga cgacaatgcc acaacgcttg gacgacgatg agagagtg 418

<210> 18048
 <211> 200
 <212> DNA
 <213> Glycine max

<400> 18048

gtaaagggaa gccatcgtgg gaaggaaggg cggtggtcaa agctcgcggt tgagacaaga 60
 aagtgaagga agcccgcctt gccacataag tagaagcttt ataagcgcgg gtctgggaga 120
 cgaaggtcaa gtggtcgcaa tatacgaaga tgatgttccg agtacattgg atttggtagc 180
 accttgcctt cctgatttca 200

<210> 18049
 <211> 347
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18049

ctcncactcg ataatggaga cacatgaaca gcgctttgca atgacattca cggagctcca 60
 aataagagag gtatattgag gaatgtcttg agggctctct cttatgcaat catggaacac 120
 agctccaaac tcgaaagtgg aggacacatg aacaacccta agcaataaca ttcatgtggc 180
 tctggaacag gatgagaatg gacgattgac ttgaggggtcc tctcttaggc aatcatggaa 240
 cacagctcca aactcgaaag tggaggacac atgaacagcc ctaagcaata acattcatgt 300
 ggctccggaa ccggatgata atggaggatt gccttcacgg acctctc 347

<210> 18050
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18050

ttgcttggac cctcaagaaa ttttgggtgct actattgaac aaccttccaa cagtacaagt 60
tctgatctta atattgtctt agtttctcaa gttgcacagc cttctgatgc tcttttgcag 120
ttttcaactt ctttcctttc ttttgetagt gtttcaaata gaaaaaatga gggtttggat 180
gttggaatct cacgtgagga tgagatggag gaagaagctc ctgagacaag taacaacaca 240
actgaactta ttttaagaag cnttggcggg tttgcgatta actcaaacc taacccatca 300
atgcctaaga caaatccttt tgggggttca ttttaataatt tagcaacaag tttatcatgc 360
tctacagtta ca 372

<210> 18051
<211> 413
<212> DNA
<213> Glycine max

<400> 18051
tggatttctt ttttagtaagg aatctatcct tctttatag gagccaaacc tagtccccct 60
tattaagaac tagctccttt cctcctctat tgcctttagt tgaataaacc tttgtttggt 120
tctctatttg gttcttaacc ctctcatgca acttcttcac aaactatgac ctacattccc 180
cttctttatg tataaaagaa gtgtcaagtg ggaagggaat gaggtctaag ggtgttatgg 240
gattgaacct atagacaacc tcaaagggg attgctaggt ggttctatga acccccctat 300
tgtacgaaaa ttttcatga ggaatatact catccaaga cttatgggtg ccttttagaa 360
gagcccttaa aagggtggat aaagacctat tctactacctc tggttgcccc tta 413

<210> 18052
<211> 375
<212> DNA
<213> Glycine max

<400> 18052
tgcttgaag gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 60
cacgaaattg aaggaagaaa aaggagaga agttgaactt tgagttgtgt ctacaagac 120
tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 180
tctttgagaa gatttcttga gaaaacttcc ttgagaagct tctttgagaa aacttcttg 240

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

<400>	18053
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<210>	18054
<211>	360
<212>	DNA
<213>	Glycine max

<400> 18054

<210>	18055
<211>	420
<212>	DNA
<213>	Glycine max

<400> 18055

tcaaagtcaa aaactaaccg ggtgaagatc gacttatgat gaataatgaa tgaggaacgc 60
caaagaatag cgaagaacgt ccatggaatt gatcacgaa acgtcacgga agcggttatgg 120
aagcgcctag acttggattt tttccttctt tcttattttc ctcactaatt ttaagtga aa 180
actgaatatc ctaagtgttg aacccttcc ccttagccca aaatgctatt ttatagctaa 240
aatgagggag gtggttgccg ccagctctag ctcagctcac ctaatcgagc tcagctctac 300
caagcgagct atgtagcttc cacctgaagc aacctccctc cagaatattc tagatgggcc 360
tatgactacg tacaccccc tatattgatc agttcacctc cctttatcat atttttgtca 420

<210> 18056

<211> 344

<212> DNA

<213> Glycine max

<400> 18056

ttgcttgtct cagcgcttat gcgagacgga gaccaacatg ctggctatca ttgccaagta 60
ccaagaagag ttaggtctag ccgcggccca cgagcatatg attgctggacg aatatgcccc 120
agtatacgcg gaaaaagagg ctagaggaag ggtgatcgac tctttacacc aagaggcaac 180
catgtggatg gatcggattg ctcttacctt gaacgggagt caagaacttc cctgattggt 240
agccaaggcc aaagcgatgg cagacaccta ctccgcccc gaagagattc acgggcttct 300
cggctattgt cagcatatga tagacttaat gggccacata atta 344

<210> 18057

<211> 398

<212> DNA

<213> Glycine max

<400> 18057

tgccaccag ctcgccagc cgagctaagt tgctttctcc agaagcaaca accatctgga 60
ggaatcttct ggacggccca aatgggctg gttgctatct gcaccccat ttttactaaa 120
tacaccccc ttgcactttt ttggtgattc cttttttcgt aaagttacgg aaacttacag 180
attatgcaac gatacttggt ttctttgcgt aattttacgg aaccttgccg attacataat 240
cattcccttt tttgacttac ggaatgttac ggaacctcac taattgtgca acgatgctta 300

cttttgattt ccggtgtgtc acggaacctt acggattgtg catcaatact ttctttcggg 360
 tgtccgcaca tcatggtact tcacaaattg cctaataga 398

<210> 18058
 <211> 309
 <212> DNA
 <213> Glycine max

<400> 18058

tgcttgccga gctcaccgtg aattgagaga catggacact ttggcacacc tcatgtacga 60
 tcttaggatt tattacctgt tcttagcaca taatacgtgt gacactacga gataacccta 120
 aatcgggtata ggtcgatata atatacacta gttttattca taaatgttag tcgttttcac 180
 agacgaactc tgtacagtgt ctatcgcttt agagtgtatt gtatgaaaga ctcatgcccc 240
 tgtttgcata tgatctagaa ctgcctgcta taaggatgat atcaaaacgg tactggtact 300
 gtataatga 309

<210> 18059
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 18059

ttggagatct tgctatccta cgactcgtgg acaacctcat cgtgaagagg aagtcacact 60
 gacagcatga gatgatattg acagtgatta ttatgctctc taaggggatg acacatcctc 120
 actgcgtgta tggcatgcat acttcataca tctctttctt gtgttgggca ggaagcttac 180
 catatatgga cacctaagct ctctgttggg gcacccctat cagtacgctg atgtaaatga 240
 ctggaaagcc a 251

<210> 18060
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 18060

atcttgagag atatacatc aagtgagatg agatgagaaa gacaaccgaa ctgagtgagc 60
 ttgagaattc taaaattcta tgttttgaga tgaaatttat aattctctgt agttgattga 120

aatttcttat taaagttctc cattttaatt tcctttcaat aaaaaaaacc aaaaaaaaaa 180
aacttagcat aatcaaatec cctaaaaatt actttcccct cttaaaatac cttatcaaaa 240
caaactcatt caaccgctac cattcacgt caattttgac agttaaacgg tctataaagt 300
tagttgttac attgttttct cattctttca agttagttgt tacactgctt tctcattccc 360
ctgcatgtca aat 373

<210> 18061
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18061

tcttanatta agtcaatga ccgtggcaaa agatctcagg atgaaggacc caaatgcatt 60
aagttggtct attttaaaag taaaattcac gtttgtcaga aataaaaaaa ataaaataat 120
agaaaaaaat ctataaattt aaattttaag attttaaatt aaatataata ttaaattcat 180
ttgcataatt actcataata tattgatcta aatcttccga gtgattaacc ctgtgaaatc 240
agaacacatc ttccatatat gtgaatttgc gattatttaa ttttattcta tatatattga 300
gcataggtta gtgttaaact gttagttaat taattaatct tgcacgacac cttatccatc 360
aatgcgtaaa aatgggttgt accaaaaacg aacgttcaac tgagtcatca nagtccatat 420
ggtttcacgt t 431

<210> 18062
<211> 535
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18062

ccaccgcccc acgcgcggca gacgagagac ttatcgatac cacaccccc cccccagcga 60
ggatgacctg aaacgcagaa ancaangaca cacaagacgc caccggacn caagagacag 120
agaggggtttt accttttaac gccacatacc cggccgaggg acaattaggc acctgagacc 180
ctcgaagaca caaggctgta tctcgtcgcg cgcaagtaag atcccgaca aatacgccgg 240
gctaattggga ccttcgcaca gagacccaaa gaacaggggg cgaagtcgcc aacaagcgcg 300

ggcacacgcg accaaacgca ccgctcagaa gaagacggca aaaccgccaa cgaccgcacg 360
 atacagcgat accgtgagag aaagagaccg cataccttaa ctgtcagtac atgagcaggc 420
 ccatgacaga ccaactggatc ggacaaaaag cgcgagagcaa ccaagcgcaa cccctcaagt 480
 ccgaagagaa gggcgcgcg ccatctatcag cgaggcacga ccacgaggtc ctacg 535

<210> 18063
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 18063

agcttgtcac tggagctgac ccatcaactg ccctaactct ttcagactgg tgattcctag 60
 gctcttgacc ttgacttgat agaacctctt tttaagtga ggcgcctgac tcgatccac 120
 gctttactaa agggaaacaa aacctagtagc gaatcaaac tctgacatct atcatgggtg 180
 gaatggacga atgcatgaag aaatgcatat gacacatatg cattttatga atacgggagc 240
 ctggggatat gtccccttct tagatacaac atttgggcag cacggcgccc gacgtacgta 300
 tttaagatgg cgacacggac cctctgtcag ttgacaaaag ggaggggatc aagacgcaat 360
 ccgtgcatga tgcac 375

<210> 18064
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18064

gcacgggtct gggagacgaa ggtcaagtgg tcgcatata cgaagatgat gttccgagta 60
 cattggattt ggtacgacca tgccctcttg atttccagct gggaaattgg cgagtggagg 120
 aacgccccgg catttatgca acaagcataa tgtaaactt tacggtttta aaagctctat 180
 aggtgggcct aggttttaga gtttttctct ttgttaaggc tttgtgtctt ttgtttttga 240
 atttataata caaggacctt tcttcatctg ttctacgtc tctaccatt ctcatcatt 300
 tgcattgtta cttctttatt tctgaaacgg aagatccgat gacgagtcct tcgaaggtag 360
 taatacctga gacccgctta tcaactttga gcaagaaacg aatcacacag aagatg 416

<210> 18065
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 18065

agcttgtagg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggg 60
 gcacaacaag ttttccacat ccacaaatcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtaa cccatatact cgttttctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttctccaaca tccaggtaaa acaacattca aacagcacia 240
 actatcacag ccaagaaaac agggcaaggc agaaaactgt gcccaaagca ccaaccaaaa 300
 tcacagcttt tctcacttaa agaccccagt aacaattcct tcgttccagt tcgttaaccg 360
 ttggattgac tcgaaaat 378

<210> 18066
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 18066

tgcgctggtt ttattcaact tctaggatc atgatcagct atgtgtgtcc tactatgact 60
 tgagaaataa aagtgatcaa ataacaagca gatatttaaa aggtactaag ttgcctccta 120
 gtagcgcttc ttttaacgtct tgagctggac gcatgatgac ttgtcgggtca cggacctagt 180
 actttgctta cttttgggtct tggacttggc cgcctatttg tcgacctagt gtcgtaggca 240
 acgctctaac ctttttgggtg ataagctgag gtgaactcta taggtggtgg cggcgcgctt 300
 attgccact gccggccatc cccaggctgt tgtggtgttt cgccctgcgc ctgcctgggg 360
 gcgcagtact tcttgatgaa agctcgggtta gtatgacttg atgaccttgc tggagggtgac 420
 aggcacacc 429

<210> 18067
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18067

agctttacag cagatttttag taatgaccca ctaacctaga attaaaataa cttaatgcca 60
 ttaacctatg gaattaaaac aaacttaatg gctgagtgtg actgatattg tggcaaccaa 120
 aagtcacccc caacagccaa caagtcagcc accatttggt ctcccaaaag gctgatgcct 180
 atgttgccaa ttggggccctt attacaactt gaactaaagc ccttttagtt gattaaccca 240
 aaacatattt ttggccagcc aactttacaa ggattgggcc attattttaga caaactaaac 300
 actctaanat tgaaataaag tgggtgtcatt tagtcctcct ccatttgggc catgatacaa 360
 ctcacaacct tggacttttc 380

<210> 18068
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 18068

actcaagctt cctctgcact aaaataagac attatcggcc agcgagcgtt ttataaaaga 60
 aattgcgcag tgtcaactga aaaatatcag tctggatact tcacgacaga tgtcggctat 120
 tgagttgtat attcaatccc ttaatgaaat atgcatgatg tcggttaagga aatgttcgat 180
 cgacgtcatg cgggtgatgct tccttggttaa cctggatcgg ccattcttcc tggccgaagt 240
 cgacaggaat ttttttcgat caatatcggt gaaaaatatt tttttgccga gatgggctaa 300
 tgttttcctg gcctaataca tgcaaatatg ccagtttctg ccgaaacaaa actgcctgtg 360
 agctctctta aaaaaactta gccgacctac attgtacatt gtttatgcaa cacc 414

<210> 18069
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18069

acgttttgctt tcttacattg agaaaccatg catccagagt actgatagct actgaccttc 60
 cgaatctatt caggaattgt ttttgctgca tattattaaa ggacatacat ctcttctatt 120
 tgcttcatga tcacgcccatt ttttcctcag caatactctc gtaatgctgt gatatgaant 180
 taagtgtctg tactacgatt gaactttcca tttgtcatcg ttcacgatct ctttcttaat 240
 atccaatgtc acgactgatt atagagttca gaaatctcac tctgttatat attctgaaat 300

ctgatgatag ctaagaggta atatcttatg ggacaatcct ttatttaata tt 352

<210> 18070
<211> 293
<212> DNA
<213> Glycine max

<400> 18070

gagaccaccg gcatgactga ctatatggtc aaagagaacc acaaactctgc gtaagaagag 60
gaagatggct cacaaactac taaagggtcac agccatgaat cacctgtcac acgtttctcct 120
cctttatgcy gcagccgcaa agattatgct tataagggca caaactatca gcttgaagaa 180
gcagtatcac agatcgactt cgaacggtat agcaatatcc tgcaagctag aggatctttg 240
cttagctctc agcagaacaa gatggaccct ctcaactggt acttgaaaga taa 293

<210> 18071
<211> 295
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18071

cagctttcat tcagaccggt ggtggttcaa aatccccatt ataattacca accttaaagg 60
ggccagaact acttcattag aataatttga agtccactaa attcaactaa caataccaat 120
aagtcccagt acaaaacctt ttgatcaata aaaaactcta aactggttga ttgaaaaata 180
aagacagaat ttattacta agcttgtggg caaattggac ccagggtttn actttttaat 240
cttttttcga actggtatgt ttgaaagaaa taccaagggg tctggttttc taagc 295

<210> 18072
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18072

tagctttgtt tatctttaat ggcctaagt ttgacttaat agttttcaga cattcccttc 60
aagaccaaca aggttgggct tgtgagtctg gaagacccaa ttctttttct cttcagtttt 120
tggttgatcg gtacaaattg ttaggctatt ggactttgca caggaccaa atacagggtg 180

ggtgtagact agattgtggt atacggacaa attacatddd gaaaagttda ttgtaaaatg 240
 taatggaaaag tacaagaaat aatagtgaga gtgaaggaaa ttttatccct aaactgtatc 300
 tacatgatca tgcataagac tgtatactgt atcgtccaaa aaattcgaac caattaagtt 360
 caacccctct attcttaagt gaacttttgc tttntattta ttda 404

<210> 18073
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18073

tgctttaatc taaacatgca tttagtgttt agaataaata tgtagcaga tatagtaagt 60
 tgttgcaact acggtatddd ttttccctaa tgcgataagc ttgctattaa aaccaatctt 120
 gtgtatctat caaaactcgt ttgaactgga gttggtttct ccttttactg aggttaacta 180
 gaataccatg gtcgcgggtg tgaaaggaaa agtggtgcta aaaaatattc attgggatta 240
 ttattctata aattaataag actgtgtttg gcaatgacat gacttgattt attcaatnta 300
 tgatttataa atcagacagg aaaatggagc aatgaattac ttatccagaa tgttgaagca 360
 cctcaagtac aatg 374

<210> 18074
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18074

ttgaaatggt agattctcag actcggatta tggatgccac agctggagac tgaatgttga 60
 tttgttatgt gtgcatatat agtcagttct tgatgtaaat ttcattcttt aggtatcatc 120
 ttattggaga ttttaacatt ttatatgtac agtctagcaa ttttaacagc atatctcttg 180
 tagggctcat gttagactac aaagaagtta ccctatctca ctttagttnt gctagcttct 240
 ttctgatgtt caacactggg actttatgtc catattgatg ttttgcttcc ttttggtatt 300
 tgagagaagc aaaatttgat ctaacttcta ttttaacaaa agatataagc ctctcatgga 360
 aaaactctct atggggttga tgtactttga tcttaaacaa gcgtccaaca tatggttacc 420

tggttgg

427

<210> 18075
<211> 369
<212> DNA
<213> Glycine max

<400> 18075

tgcttctctt ggaccttagg caaatcctca attcatcctt caagatcaaa ctgtctactc 60
gtgattggtc cctttcctct ctccggagct taagctcggt gttactgccc cacagagccc 120
ctcggaattt gttccggcca tgttcttccc tacgggacct tttggctctct tgttctaagg 180
ccttggtggt ggctatatatt acgtctctca gttcggcatt ctcccttcgg atcttaagag 240
ctgctgattt gaacttttct ttgactattt gggctttctc gatttctgtc ttgagggcct 300
gcacctcttc gtctcctcc ggaacttcaa ctccaccca ctcaagggtt ctctaactcg 360
ggagccaat 369

<210> 18076
<211> 393
<212> DNA
<213> Glycine max

<400> 18076

tgcccaagcg agctaattgct tagctctgaa ggaatgagct caccagggcg agctggttgc 60
ttatgcatga agccatttca tggccaatgc gagccaaatg ctatcctgtg ggagctaggg 120
tctataaaaa tccaaaaaag acccttttgc ccccttcttt ggtatctttt tgttttcttg 180
atcaaaacac taagtgatcc cttgcttcgt actggaacta gcgccaata tcataattcg 240
actagcaaga atcaaaatat catatcgaac gatattcccc ggacaaaatt agggctctgac 300
attttccct ctctacttat cttttattga agatgaaaag gtgagtaaag ataaagacac 360
taatttcatt tgagcaatct tgctatttga aat 393

<210> 18077
<211> 369
<212> DNA
<213> Glycine max

<400> 18077

agcttctcaa gaaggtgagc ttagttatta gaggggtgtg tgtagctaag ctctagcttc 60
tcaaggaagt tttctcaaag aagcttctca aggaagtttt ctcaagaaag cttctcgagg 120
aagctaccta ttctataaat agaagcatgt gtaacacttg ttgtaacttt gatgaatgaa 180
agtcttatga gacacacttc aaagttctac ttctctccct cttttattcc ttcaatttcg 240
tgctcccccc ttctctcttt cttttctctc attaaagcat cctcttgaag cttcttatcc 300
atggcacatt cttggtgggtg aagctccttc ttccatggct tattccctag tggatgggtgc 360
ctccccctct 369

<210> 18078
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18078

tgtaagatta tggggtaccc atcacatgtg gtactatgtg gcggtcgggc gatggtgcac 60
aacaagtttt tccacatcca caaatcgcg c ataaaccac catccctgt tgcccaccta 120
caactgagct gacgtactcc cacgtagccc atatccgtgt ttatctcaac accgggtccc 180
catcaatcct cccaagcttc cccaacatcc aattaattca acatccaaat catcaciaaac 240
taacaaacca agcaaaacag ggcaaaggca gaaaactctg cccaaaactc ataccaaaat 300
cacagctttt tctcacttaa agaccccagt aacatttctt tegtccaat tegtcaaccg 360
tnggatcgac ccgaaaatat tactggaaat ctctagtaca taaggata 408

<210> 18079
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18079

ttgcttcang ctttgcatgt tattgaaatg tcatatgaat ttgaagaaaa ctttcatctc 60
aacacacgac aacgtcaatg tcaatggata atagaatgac agcggaaatg aaaaaaagg 120
caaactttct aaacgcatga gtgatattac tattcttatg ctgaatataa atgaaatcgc 180
tattgacaat tgtaagatc ccaacggata agtgctatct gagtccgaca gtaatatcta 240

tgttttgtgc ttctcatacc ctctctttaa tttggagtat atgcatgcat tcatttttct 300
 ttattctgca tgggtctatca ttacctcata atatccatgt ctttgaatta gtaggcctg 360
 tgattcatgt 370

<210> 18080
 <211> 410
 <212> DNA
 <213> Glycine max
 <400> 18080

tgtggctctt cacgtctgga atatgaatgt agcatataga tccaaagacc cttagatgct 60
 ttgctgatgg cttcttcccg ttccaagctt caattggagt cttgtctttt acagacttag 120
 ttggacatct gctgagtatg taaacatcag tgtatactgc ttcagcccag aatgtgttat 180
 gtagtccttt cttcatgagc ataaatctag ccatctccat aactgtgcga ttctttctct 240
 cagacactcc attttgttga ggagaatatg cgactgtaag atggcgctca atgccttcat 300
 cctcacataa tctatcgaac tcgcgagagg tgtactctat gtcgcgacac tgcttaatac 360
 tttatcacct ttcactttga ttttaacaag ggccttgaac tgttagaata 410

<210> 18081
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18081

agcttcattc tacacctgaa aaagaggatg agctagctgc acaaaagaga aagcttcctg 60
 atcatgaggg agctaacaca aattttcatg caggtggacc ttctttgagt agttctgact 120
 tgtagcagtc tcctatccct cttccatttc cacctagagc aattccaaac aaaaagatgg 180
 aagaagtgga aaaggagatc ttggagacct tcaggaaagt agaggtgaac atacctctgc 240
 tagatgccat caagcagatt ccaagatatg ccaagtttct aaaggagctg tgcaccacaca 300
 aaaggaagct canaggcaat gaaaggatta gcatgggcag aaatgtgtca gcattgatag 360
 gtaaattcta 369

<210> 18082

60310F 504460

<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18082

agtccttgat ttagacatga ttgatactng atttgtgact tgtacgattc aatctgggca 60
aaatcggatg agggaaagtg tgatttctaa aatctgcact ttatgcagaa ttttgctgtc 120
aaataggtgc agcacaattt tggctctgtg cagaaagtgt tgtgtatttg ctggctgtgg 180
aaagagtagt acagattggg ttctggacgc tttctagcag atcccaacgg tcataatgta 240
gatttatgtg ctagagactt ccagtaaaat tttcgagtcg atccaacggg ttacgaattg 300
gaacgaacag aatattactg gagtatttga gtgtgaaaag ttgtgat 347

<210> 18083
<211> 371
<212> DNA
<213> Glycine max

<400> 18083

agcttcgttt atggcccaag ctaacctcca aaaaattccc tcgtgaaaag tatttagctt 60
tgaaaacacg agttacggta gcatcatgat tggttgaaaa ttgctaacct tccctaakat 120
ggaaaagtta gaaccataaa gatgtcgaaa ggaatatact tgctcatctt tctgtttaga 180
cctcacctga tgtgacaaat actctcaact catcaaatta atatctttgt ttaccaagat 240
aatcaagac ccagagtcac tcttatttca tcaattcttc tagaatatat ctctgtttca 300
cacataaaat ttgcattcga ttggtacgtc caaatgaggt cacgaaggta aagaattggg 360
aagttcagat g 371

<210> 18084
<211> 433
<212> DNA
<213> Glycine max

<400> 18084

tgtgtaaaat gtaaagaatc actgaaggct ggccaagtgg aaagattatt ggcttgtcca 60
aaatttatga tatattctga tcaggattat gaatctgact gagaatatca gtatcttaga 120
aattaagggg aaattaattg gattccctaa tactgggtct cctattcctt ggctctatat 180

agaccattaa ctttttgatc aagacattaa cacgagatat tttatatgct tttgtataat 240
gcaagtgtaa ccttagacac tagacaaatg attttgaccc atgaaaaaat atataatttt 300
tgttatagga ccttggtgcta aatcctagat ggacttatgt cacattgttc cttaatttaa 360
tcataatggt gtattttctt tttatttaaa cagctctggc gtgtttgtta gtgcttctga 420
ggataaaaca ggg 433

<210> 18085
<211> 358
<212> DNA
<213> Glycine max

<400> 18085

ttgttttagag gtgttgcacg aaatgaagaa atgttccagg gattttgtac tcaatccacc 60
cctcgggcaa gtattagact agctcatgtt tctatgattt gactcgagaa ggacagacaa 120
agagttgtgc ctaatctgcc aaaggaagat tttaatgttt tgggtggacat tgcactttca 180
aatccaattg aagtcgaaat tttgtaccac tgtagagtta tcttattagt tttgcaacca 240
agcataatct gaatgagtgg tataaatacc atttttattg ccatcccaag caaatgagtc 300
atgaacatca tgatgaagaa taggggtgatg agagataaaa ctttctatga cttcatca 358

<210> 18086
<211> 320
<212> DNA
<213> Glycine max

<400> 18086

ctcagcttca aaatactctg gaagagcgcc aatttcaaaa tttcaaaatt gctattagca 60
cccccccat ttttgatcag ttcaccccc ttctttcgta atttatggaa aagttacgaa 120
agtctatagg acttgatttt cttcttttat ctcttctgtc tcacccatat taagtgaat 180
atgcttattt acggttatgg aaattttaca gaagcattac ggggtgtcca gaagcctcgg 240
aagcccat ttttaacaaaa cgggggatgt ggtggccagc ttctcccca ttgcgtcctt 300
ctgagattca ctattctacc 320

<210> 18087
<211> 380

<212> DNA
<213> Glycine max

<400> 18087

tagcttataa cttacaagcc ttcaactaac ttatccgta gttttatcaa acataaccat 60
actgaagttt cattagtttt tttatttcat atatttacta gcaacattct aaactctagt 120
ttccacaact tacttggtta gcttctaaaa attagttttt aaacatattt acataattct 180
aaaaaaacaa attatgaaaa tataaccttt tacttataga gtataatttc aaaaatttta 240
aatttagtca tgtatacaag agcatcttta gaagaaagt ttttttttct tttataaaaa 300
aagggtcaaag ctgtatttaa aaaaaaattc aaaaaaaaaa actcacatat atacgtcatc 360
attgatcgaa gccttactat 380

<210> 18088
<211> 411
<212> DNA
<213> Glycine max

<400> 18088

tctagattca tcctaactaa ccctaacaga agctaaacaa ctaactgaag ggtatcttag 60
ccttctaacc ccttgatcat gtcacggct cactcgataa gcttcacacg ttccattctg 120
catggcttct gtcgtaacct tctggatacg ctgggggtgga cctttccctt cgtgggtctcg 180
cactccttgc ttctgcacc tcctttgcta ttgacacccc ttcccttaca tttcccgtaa 240
cagaatccaa aatattaaca tgcttgata ctcatggaaa acccgttaaa cgggaaaaaa 300
aatataattt tctagacatg aacgtacaag tgtaaagagt gttacttttg aaaaaaacgt 360
tgttacactg aacaaaacat tttttcaaac acgcgttaag acattaggtc t 411

<210> 18089
<211> 382
<212> DNA
<213> Glycine max

<400> 18089

agcttaaaca ttcaacttcg agcgtctcga tatattacga gtctcaaaca gacatccgag 60
taaaaagtta ttcgtttgaa tttgctcaga gcttcaacgt tcaattttga gcgtctcggt 120
atattacggg actcaatcag acatccgagt aaaaagttat tgtcttttgg attgggtcag 180

agattcaaca ttcaatttcg agcgtctcga tatatcacgg gactcaatca gacatccgag 240
 taaaatgata ttgtcccctg aattggctca gagcttcaac attcaatttc gagcatctcg 300
 atatatgacg ggactcaatc agacatccgt gtaaaaagtt attgtgcggtt ggattggctc 360
 agagcttcaa cattcaattt cc 382

<210> 18090
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 18090

tctatatcag ctgaaccatt ttatcaataa acacatgttg cgttttattc agaaaattag 60
 aggttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcatgaac 120
 accttggtcg tatcacagga ctttcacaac ctttgtgtgt tgcctcgcgt ggaaagagcg 180
 atccttcctt ttctttcctc atcacccttg ttctttcaaa ccacaattcc agaaaatcca 240
 cctctgcccc aaattatctc gtggccataa ctcccatttt acgcactcaa attaagtgat 300
 tcttgatcct acattgaatt tcacaacgag acctttcacc tcgttatgga atcacctcat 360
 ttggagccat gtagcttcag ctatcgccat ttctatattt ctgtccagcc accacttaac 420
 ctacgtctta cc 432

<210> 18091
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 18091

agcttgaaga tctgtctgaa atagcacaca gtggtcaatg tctcagcatc tctgttatac 60
 aattgtggat tctataagtc aatttacact attgtttatt accttaactta ttattttaaa 120
 ttcatacata atttacttta tgttaacaac aataggcata tgactgagac aagtatgcga 180
 gcggggaata ccaatgtgta tggattcctc gagccacaat ccatccagag atctggccaa 240
 tcacaatttg aattaaaaag ttacattaag aactgaatgc agaattcaaa acgggatgtg 300
 taccaaggag cctacctgaa tgggtaagtt aaactaaaca aatgaattaa ataatgtata 360
 atgct 365

<210> 18092
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 18092

gtggtaaagc attgattcta tactgcttct ctcacatcatgt ggatcatgat gtccacaatt 60
 taatgatcct ttgctaccct gcagtgcagac acacacagat acacatacac acacacgtgg 120
 agacaatgac acgcagacac aagcactgac acacattcac acttggagat gcacattgac 180
 actcacacag agtcacgctc acatatagac gtagactatg acacaaacac actgagccat 240
 agacgcacac ggagacccac acacaaagac acacacactg agtcataaac acacacatac 300
 agagtcacgc tcgcacacat ggacagacac tcacacacat aaagagacaa acgcgacaca 360
 cgcaca 366

<210> 18093
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 18093

ttctttgaac attcgaaccc taatggttgt tgcgatgaaa aagggtgtaa ttgaaaacat 60
 aacaaaaaac aaacgggtcaa actcaaattg gttttggggg gcttccctta catggaaaag 120
 ttataaccat aaaaacgtct ataggaatat ccttgctcat cttttctgtt aaacctcacc 180
 tgatgtgacc aatactctca actaatcaaa ttaatatctt tgtttaccaa aatatatcat 240
 taccagatt cacctcttat ttcattgaa 268

<210> 18094
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 18094

tgcgctgatg attcggagtg ttaggggttaa tgtgttgaaa ggaagtttag tgcagaaatt 60
 aataatctga agagattgag agatcttgag gaagtaggat gatgttgact ctatagtga 120
 attcaagatg cttaaggatt agctagtga gcttctggta aaagatgaca tttattgaat 180

gcaaagagcg aacattgagt ggctacaaga aggagattct aactccaaat tctttcatta 240
catggccttc tctttagaaa agagcaacaa tatttcttag cttcacaatg attctggaat 300
gttattaacg actcaacacg atcttaataca agtagcaaag aattattttg ggaacctttt 360
caattcatat tcagattctc ttgatgaggt gctagaagtt attcatccaa gtgtttcaga 420
tat 423

<210> 18095
<211> 117
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18095

ttcattctat gtaccccggtg tggccacat tnttggtcat gtatttttat tcttggtttc 60
atttactttt tataccccct ttgatgtgc ttaagccatt tattaagtc atttctc 117

<210> 18096
<211> 422
<212> DNA
<213> Glycine max

<400> 18096

tcttgggggt ggctggctat tatagaaaat tcattgagtg attttctaaa ttggcactgc 60
ctctaactaa gttgactcgt aagaatgaga aatttgtctg gaatgagaag tgtgatcaaa 120
gtttccaaga gttgaagagg cggttgacaa cagctccagt gttagttttg cccgacccta 180
agagaccatt tgaagtgtat tgcatgcaa gcgggcaagg cttgggggtg gtgttaatgc 240
aagaggaag agtagtggcg tatgcttcac gccattgag tctcatgaa gttactatc 300
cgacccatga cttggaacta gcagcgggtg tggttgcttt aaagatttg aggcattatt 360
tatacggtac tcgttttgaa gttttcagtg atcacaagag tctcatatac ttgttcgac 420
ag 422

<210> 18097
<211> 372
<212> DNA
<213> Glycine max

<400> 18097

agcttgcttc ttcagaaatt cgtaggccgc ttttttgttt ttccttgaat aaacgttcat 60
ggtgatttcg cgcgtttttc ttccttggaa aatgcaccgt gagcctcgcg ccgacctcct 120
gttgaagggt aggttgcgac aaggtgtaca cacattaaca gaaagaataa ctagaagcag 180
ataatgtcaa atcacagcag aaataacaaa ataagccaaa agcaataatg tcaaatcata 240
atggaaataa caaaataagc caaaagcaat aaagtcgaca gaagacaaat cagaagttaa 300
gtgatccggc cgtatagccc tatctcctca caggaggaag tctatcaggt cagccatgtc 360
cctgcggggc ct 372

<210> 18098

<211> 423

<212> DNA

<213> Glycine max

<400> 18098

tgtctcagcg tttatgagag acggagacca acatgctagc tatcatcgct aagtaccaag 60
aagagttatg tctagccgag gccacgagc ataggattgc ggacgaatat gcccaagtat 120
acacagaaaa agaggctaga ggaagggtga tcgactcttt acaccaagag gcaacctatg 180
ggatggatcg gtttgccttt accttgaacg ggagtcaaga actttccga ttgttagcca 240
aggccaaggc gatggcagac acctactccg cccccaaga gattcatggg cttctcggct 300
attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaacttgta 360
tggtctctaa gaccttgact agatacgact ttctttttga aataaaatga gttgggtcca 420
tgt 423

<210> 18099

<211> 370

<212> DNA

<213> Glycine max

<400> 18099

agcttggttg gggctagtga actttggaga atttttatct gaaggaatct aaatcatggg 60
ggcttgcttg gcctcctctt ctccctcat gtcaacttaa ttagattctt gggggagaca 120
atcacattaa ataatgtcct ttcggttggc tcaattttaa aactttgatt ctaacctagg 180

tatcatgtag cccatctcac atgatacgat aagattttat tgatgttggt gatggttgac 240
tcaatttatt tgtttctctt ttcaaata atgacaattg atactacca tggttatcaa 300
acttttggtt aactcgctaa ctcttacgat tttatgagtt cacttatttt ctgtgagttg 360
attcgtgtgt 370

<210> 18100
<211> 407
<212> DNA
<213> Glycine max

<400> 18100

tggtgaggcc attattcttg aagcttctaa actttataca agaatagaagc tctgatacca 60
cttggttgac aagtggcctt agaaatctta agaatggggg gttgaattaa gattatgctt 120
actattcccc caattaaaac ctactcagat ttttatgcaa gttctgagtt cctttataa 180
taaatagactt agatgatgaa tcaaatgagc aaactgaaat gagactaata aacaacagct 240
aatataagag ataaggggaa gagagaatgc acaaccagat ttatactggt tcggccacac 300
ccttctgect acttccagtc tccaagcaac ccgcttgaga gtatcactat ctttgtaa 360
tctttactag tattgtacca cacaacgact ttctgatgaa aatcctg 407

<210> 18101
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18101

tgcttcgaca ctatgataca ttgtgcctcc tcgttattga atggagcagc ttcaaaattg 60
ataatcgaca agaaagttct cagaaatttt gctctacca caacatcaaa gttgtccaag 120
actgaagaat tgaatttcgt aaatgacaaa tgacgagtct tggctctgat ctttgtttct 180
ttccaagtt cttctgatct aaagtaaaaa tctccaccga gtgatgtggc tagatcatgc 240
atgaggtcat gcatcacaaa acatttgcca taaggccaac tacttctact tgtgtttgaa 300
cgttgganaa atgatctcga aaccaaata tcataatact catgaccaac ctcttctaaa 360
gtcctacctt tg 372

<210> 18102
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18102

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 gataatttct tcatttggtt ttgatgaaaa ccccatggat caatgcatat accacaaggt 120
 tagtgggagt aaaatatgct ttcttggttt atatgtagat gatattttac tagcagccaa 180
 tgatcgggggt tcgctacatg aggtgaaaca atttctctct aagaattttg acatgaagga 240
 tatgggtgat gcatcttatg tcatcgccat ttacattcat agagatagat ctcgaggtat 300
 tttatgtgta tcacacgaaa cctatatatga caaaattcta gaagagatat cggatgaaag 360
 attgtcacca actgttgccc ccatt 385

<210> 18103
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18103

gtagagctga cctgcaggca tgcttatctc cgtaatttga taaatatagt cgcgtagggg 60
 gattagaggt cagttaactt actctatgca cctgactaag ttcaacattg gtgtttggat 120
 gactttctgc gaaaatcgac ctogtcttgc ttaccatgaa gggagggggg aacaaaaatt 180
 ggtcatcaat cgctgaaact tatacgggga tcgtgggata gttaaagggt caacagcaaa 240
 ttgcgtggac cgcagactta caatgaattc tatggaccga tggaggtgca caacctgtat 300
 cataagatag tgatcgtctg tcttgacaat gtatgcccc ttgtgacgag cttatgccat 360
 tgattcaaag aattaatgc tataacc 387

<210> 18104
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 18104

tctaaatggt tcaagcattg gacgattctt atgaagaatt aaatacgata gatcgtgaag 60
 tgtcttatga tagacaatga cttggaattc tattctacga aattcaatga attctatcaa 120

[illegible]

<400>	18105
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<400>	18106
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7586

<210> 18107
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18107

tgcttttgaa cgtgacaaac tttagttaag gttttaacaa caccatcatg catattgatt 60
 tgtacagaac ctataccaac atacttacga ggagtattgt taccataag gacattacca 120
 ccaaacttct cctcatatgt cacaagccaa tttttgtgta gacacatatg ataaaaacaa 180
 cctaagtcca ataccattg ttcaaatgt ttagttgtt caccaatgac cataaccaa 240
 tcccttttcg ataaagagtc attctgaaca agggcagcaa tataatagtt ctttactttc 300
 tttggacaat ctgctccca atgacccggt tnnnttgcag taattgcaga tgccttatg 360
 atcaatttat ctcttct 377

<210> 18108
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18108

agtcaaaatc catggcaaac acgtccccag tccattgcgt gttaaacca acgttcaccc 60
 ttggtgagcc tttcttttgc taagttcgat ctccatagga actcaagtta cgcaagggtcc 120
 acccttgaca atctttctta ttctaactc ttattcgtgc aagaacgcaa gaacatcaaa 180
 aaccaaggt ccacccatgg tacgcactcc tatgaaaccc aagggtccacc cttggtaagt 240
 actcgttcaa acccaaggta cctccttgg ttgctcact ccttaagaac catgttgacc 300
 ataacaaaag gtctagtgtc cttaacgta agcacactac caccagactg gatggcgaga 360
 ccttcaacca ggtggaagtg atcctaactc cttataacca tcatgggaaa agctc 415

<210> 18109
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 18109

ttctttaata taataattgc attaatagaa ttaatatata tatatatata tatatatata 60

tatacacaca catttttttc tttatttact aatataacaa attgcacaat ttattaaaaat 120
 ttaagaataa ttatttgtaa gagacagaaa ggaacaattt acaattgatt aaaattttaa 180
 atttaacgcg tcggagtcaa tagcaatcag aacaccactc taaattttta caaaataagt 240
 cgtgcctttt ctttacgggt caaaataaat caagtctata tacaattttc tataaatata 300
 attgacatat agccaatcaa tagtagtaat tatgacaaac aagaataat 349

<210> 18110
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 18110

tctctcagca actttgactg caaaacttca cagggtgcttt atgggttctt tgcaagtgc 60
 aagacaagct ttggcatctg agtctcagag aacaccaccc tcagtgc aaa atgcaacaac 120
 ctccacaacc acaccaatta gcaacaactt cagtgtgaag agtgagcaaa ctcatgcagt 180
 gttgccacat aagagaccag aggaggagca agagtcagag gcaaataagg gtgtgaaaag 240
 ggttaaggct gtggaaaatg ttcctctgca attcaagcct cttgaggaag atcacataga 300
 gcaaatagatt gaggagcttc ttgattatgg atctattgaa ctctgctctg tcatttcacc 360
 ccaggccctc taattgaatg tgcattgttt tgagctgaat ttaaagtcac aa 412

<210> 18111
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 18111

ttctatattg tgaatcaaag gtgttttgat gatgacaatg atgataacca aagatgatga 60
 cgaaggatgac gacaaaaagc tcaaagatca atcaaatac aactcatgtg aatcaaagat 120
 caatcaaagc acaactcaag tgaatgcaga acaattcagc agttcaagat aagaattaag 180
 aggaattcat gacacaacaa gaaagtttag agtctataat ccagaatcaa cgtttaagat 240
 ctcacgaatc aagagaacac ttaatcacia aagtatgaaa ttcttttctc aaaacatgta 300
 accaaagagt tttactctct 320

<210> 18112

<211> 419
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18112

tgtctcanaa tctttctcta agttacgaag ccattccata atttaaata tagcatcatcc 60
 atgattttgt tagcattgaa tatgtcgta gtcaagataa tgttggtccg ctgctgcaa 120
 atagaccatg tcaacgctag ccaccaacac ttccacctgt tgacctttac agcctcagcc 180
 accccaaata tatgttgaag gaaatgatgt tttgggtttt gcgggagagg acccagcaa 240
 ttcaccaag acatcgattc ccaccacagc ggactgattt tgctgcaatg aaaaaacgca 300
 tgacctgtat tctctccag attactgcaa aacacgcaac tcgtatcatt taattccacc 360
 tgtcgtctgt gaagggttgc ccttgtaagt agtcgatctc taagtaacct ccatgcgaa 419

<210> 18113
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 18113

tatctttatt caaacagaat agtccaaaga tgtcaaagaa ttgggtgttg aaaaagcata 60
 acaagacttt ctgtgattgg ttaaagata caatctttgt agatgaaaat gcttcaaaaa 120
 cattaagaaa gctagcaa at gggcctcaa gaaatgttat aacttgga ggatacatca 180
 taaacaagta ttcattttac acaaaagcac aagacgaaa aagtacaatg cagaacagt 240
 gggtcacct taaagctgaa tctcaacact tcgcaagtgt gcatgacacc aatccctgtg 300
 tagcttccat cccttacttt ggggttcattg att 333

<210> 18114
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18114

ctgcagatat ggccttcgcc agtgaaagga tcattttgtt ttccaaaaga ggcaaatttg 60
 atcatcctac tatgacgact gacaaaactg gggcaaataa agagggtgag gatgaacgag 120
 aaacccatgc tgtgattgcc attcctgtac ggccaagttt ccaccaaac ccaacattgt 180

cattactcat tcaatatcaa acctcctcct taccaccac ccagttatcc acaaatgcca 240
 ttcttaaate aaccacaaag cctgtctatc ccacttcaa tgacgaacac cacctttagc 300
 acataccaaa aacaccaacc aataagtga ttttgcagcg agaaatctct gataattcac 360
 cccaatccca gtatcctatg ctgac 385

<210> 18115
 <211> 168
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18115

ttctccttac gcactgtgc ggtatttcac accgcatatg gtgcactctc agtacaatct 60
 gctctgatgc cgcatagtta agccagcccc gacacccgcc aacacccgct gacgcgaacc 120
 ccttgcggn cgcatagaata taactncnta taaatgatcg cttacgag 168

<210> 18116
 <211> 292
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18116

tttttcttgt gaaagtcctt ctgattctat ttatgcattt ctgacttgat gacatgagat 60
 gaacataaca gattggacct ctgcctcgat gagattagt aacaccttag acattaatac 120
 tcgactgata cttatattgt gagactgtgg ttttaagctac tctccttgat atttgtctta 180
 tgccctaacta tatccattgg tacaatgac gttntactct tctctttgaa taactgcgtg 240
 ctctgtgaaa gacagatgat gaaggcactt tgcttcattc ttttatcatg ca 292

<210> 18117
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18117

tctccctctt ttcctataa atagggggag tagtgtattg aacaaaaacg ttcaaccctc 60

ttggatatctg aggatcactt aaaattagtg agaaaaattg tttccgtgaa gaaaatccaa 120
gcccaggcgcg ttcgtaacg cttccgatac atttccgtgg gtgatttcgc gaagattttc 180
caccgttctt cgtttgttct tcgtcgttct tcggtcttca actagtaagt tcccgaaatc 240
aaacttttnc aattcattctc tgtacccttg gtgggtcccca ctttttttcc gtacttttat 300
tttcatttca tttacttttt gtacccctt ttgacttgct ttagtcattt atttaagtca 360
ttctctcgcc tantcaaaaa taaaataata ttccactgat cattcatatt gt 412

<210> 18118
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18118

aggcgtgggt tcaggcgta tgcntngcan ngccnaancn agctcggacc cgggataccta 60
tacatctacc tgcattgcatt ctttcttgct tttgagagnn gaantgagcc gtactgtgac 120
tttagatata agacaatcca atcaagaaag agaaatccaa aagtgaaca tccgatagat 180
cgttccgctt tattttacta aaagagatct ttttaaggata gcatgaatgg atcctctcca 240
gttgccaacg tggttacagt actacggaac ggactgatat cattctagcc tccactaatg 300
gatataacaa acaaacatcc cgggacatta cgggtatcctt tgtcacgaca tatacgactt 360
atgtaatgac agagcacgct accaggcggc gaaaaggat gaccccaagt atagtacaag 420
aacgtcgggt acccgctgct g 441

<210> 18119
<211> 318
<212> DNA
<213> Glycine max

<400> 18119

taatcttttg ctgagggggt ttattattct agatatcata accttctatg aagaagatgg 60
caaacttata gagggaaacc aaaataagta cctgttagtc atcatctaca actaactttg 120
gtataaaaaa gttttataaa atgtttatcg tttccccaat ttatggttct ttttgtaggt 180
tgggacatag ttttaggttt agtttaattt tgttcagtag aaatacccaa cattgtgaat 240
ttaatgtgct taactttaat ttccggtaaa aaggatgaaa tttgggaagc tagcagctgg 300

tgtctcgcta agcgaggc

318

<210> 18120
<211> 407
<212> DNA
<213> Glycine max

<400> 18120

tcatgatgaa tcaaagggtga ttcaaagggtg ttcttatgat aacaatagtg accacaaatg 60
tgatgaacaa aaagctcaaa gatcaatcag agaacaactc atgtgaatca aagaatatct 120
caagtgaatc aagaacaagt caagagttca agataagaat caagaagaat tcatgaactc 180
cagaagaaag tctagagaca agaatcacga ttcaaggttc aagatctcaa gaatcaagat 240
caagattcaa gaatgaagag aagactcaat caagataagt tttaaaaagt ttttcaaac 300
tttgaatagc acatgagttt ttgacaaacc ttctaccaga gagtttttac tctctagtaa 360
tcgattacca actagtaa atgagttgaaa aatggtttcat actgaat 407

<210> 18121
<211> 308
<212> DNA
<213> Glycine max

<400> 18121

tctttcttgt gttatcttat catcctgcaa caaaaaagaa aatatcggtc aataatatat 60
aataatttat tatccaagat acagggttgg acttcaacaa cctagttcc tatacatata 120
caatagctac catcctatct agttttggac tgcagttact tcatgggtca caagtcaatc 180
aactgcttga gatagctagc ttgcgaaaac ttgcaagtca acatttttaa caaatgtta 240
atcaaataaa ttctcactag gtaaaccact gtactggtaa taaatcacat agatagatat 300
cccatacc 308

<210> 18122
<211> 413
<212> DNA
<213> Glycine max

<400> 18122

ttggaaaatg gtttctatac aaaagttatt tttttattgt gactaacacg ctcccccaaa 60

tttacaat t t t t t t t c c t c a a g c a a a g a a a g a a c a a t t c a c t t g t c c t c a a g t g a c a a 120
 a g a c a g t g g c t a a t c a a a a g a a a a t g g t g t t t g a t t c a t t a a g g a c a t c a a c c a t a t g a a 180
 c t g a a t a c c a t g g a a t g c t t a a a t c a a t t a c t t c t c a c a a g c a t g c a g t t t t t c a a a g a 240
 t a a g a g c a c a a g t a t t a g a t t c a t a g c t g a a a a g c t a g t a a g c a t g a c a g a a a t c a t g 300
 g a a g g a t c a t c a a c c a a a a t c t c a c a g t c a t t g t t t t c a c t c a a a c t c a a g t g t t t a g g c t 360
 t a t t c c a t c a t a a a c a c c a a c a c a a g t t c c a a c t t t g c a t g t c a t c t c c t a 413

<210> 18123
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18123

c g a c g t t n n n c t c g a t t g a t g c n c t g a c n a a n c a a g g c a a t t a a g c g c g a t c c c g g g a g t 60
 c t a c c g g c g a c c g a t t g t t g c a t t c t g a g c g t g a c c t a c c g a g g g t g g t g t a a c a a c g g 120
 t g a t c a c t a t a c c c g g c g t g a a a t t g a c a g a c t t t g a c c a t g g c g g a c a t g c t a c a a a c c 180
 g g a c t c a t a a c a c g t a c t g c a c g t g g a g c c t a c c a a t g g a g c t a t g g g a c t g t a g c g a c a 240
 a t g c t c c c a c t g c c t a t t g t a c a a t t g t g a g a c g t t g g t t g c c a c g t g g a c a t a t g g a c g 300
 g g c c a a c g t a a c a t a a g c c g a g t g c c a t a t g t t c t t t g a a a a g c g a t c a a t a c a a t g t g g 360
 t a t g g c t g g a a c t c a a a g a c g a a a a t a t t g g t a a t a t a g a a c g a a t g t g c c c t a g c c a g 420
 g a g t g t a a g g c c g c c t a g a a t t g c c c a t g a a c g 453

<210> 18124
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 18124

t a t t g t t t t c g t g t g t a a a g c g c a c t c t g c t c a c t a t a t c a g c a c t t g c a a c t g c a a a a t 60
 t a a c a t g t t g c a t a c t g c c a t a c a a a g t g c a g c a t a a g c c a t c c c a t a t t g a t t g c a g a g 120
 a t c a g g c t c t c c a a a a g g g t t g c c t t t c t g c t t a c a t a t a g c t g g a a t a a t g a t c a t c g a 180
 c a g g t t t c c t a a a t t t c c t g t t c a t a t c a a t c t a a a a a a t c a g a t c a a c c a t a a a a t g c a 240

tcaatcaact aatgatgcaa aagttcgatg ctctaataaa aacaatgatg catagcagaa 300
 ttttgcaaga tgtattctta gtctaagtg aacttttggt ggtataacaa gtctaacagt 360
 tggatggatt ttaatcaaat gaatcatgaa tggatcata 399

<210> 18125
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 18125

tgcattgctt cttgttcacc aatcacactg gcaggttcaa tctgggttatt aacataaagc 60
 tatatccaac ttttagtaat tggagaataa gatcacacat taattattaa ttgcaattga 120
 aataatatct tacatatgcc atgcatgagg acattctgta tatggatgtg ccaaattgtc 180
 gaggaatct ttggaacaac atattctacg attagacaat gaggggtttg tgtcagcaat 240
 tccataatgg atacaaacag cagctcatgt acaacgaaga gaataaaatc agaattcctt 300
 ccaacttact tctggcacia agatccccct cctaa 335

<210> 18126
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 18126

caaacatcat agtgcgatac aaatgtatat tcatatgtta cagagaagaa aacatctggg 60
 ggaaacaata caataagaaa gaataactaaa gaataacgga gaaaaacagt caaattacta 120
 ggttctcttc taaagagatt acagcagtcg gattcagtaa tcacagtata cgaatgaaat 180
 agcacccttc cccccagctg ctttaattag cactttatgc tgtaaatcga ccgcactgat 240
 agcttggcat ggcatccata aggggcatcc atgcgataca cagctgtcaa ctcttctgac 300
 cctcataaac caacactagg aaatgtaagt gaggcccata g 341

<210> 18127
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18127

ttcttataag aacaaaattg cctaaatcat ttccaaatat gcatgtgaat taagaagcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acacaaaaag 120
 attatgatga tggatggctc anattctcac aaaggtaaac ttatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagaggaaa aacaaggatt tcaaatccca aaatgtcaag 240
 agacttttat tttcagaaca attaccatt acttgaactt atcctataat tcaaagaaaa 300
 acatgcaaat ttaacacaac aaaactaaca aaattaaact agaaccaaac aaaactaaca 360
 naattaaact aattt 375

<210> 18128
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18128

taatgacct caatctttca atgattatag acctatcttt cttatagggt gtgtctataa 60
 aattgtggca aaagttttgg ccaagaggct ggccattgta ttacctcatc ttatagatga 120
 aaggcagacg gctttttatga aggggagaca catccttcat ggtgttttga ttgccaacga 180
 ggcttttagct gaggccaagt ctagaaataa accttgcacg gtcttcaaag cggattttga 240
 aaaggcatac gattcgggttt attggggatt tcttgactac atgctcatga ggatgggatt 300
 ctgtgaaagg tggaggaaat ggataaatgg ttgtctatcc actgcaacca tatccattnt 360
 agttaatgga agcccatcta aggaatttgc tctaagaga ggtctaaggc aag 413

<210> 18129
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 18129

tgcttcttat ccaaggctca tcttgggtgt gaagctcctt cttccatggc ttattcccta 60
 gtggatgacg cctcctgtca cctcttctcc tttgtcttcc gctgcatctc catgggtggat 120
 aatcaccatt aaaggacctc attgaaactc aaagatccag cttccataga agccccacaa 180
 gcaagcttcc atcaaagtgt atgaatttta aaatccaatc ctacagtttc ttgaattaat 240

taaattcggtt attattgttt ctgtacattt atgtatttct gacacactaa attcgattat 300
 atttggtatc tcattccttt agtt 324

<210> 18130
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18130

tgttgccatt agaagagaat gagcatgtga ttggtattat gactggaatt gttagtcagt 60
 ttgccagatt gattgtgaag gaatgcattg accgtatccc ggtgagagtg tgatccttaa 120
 attttgagag aaatgactat catttaatac tgatttttgc atgaatcttt gaagtatgga 180
 ctgaatgcat gaaattgagg atgatgaagg ccatgtttga ttgggatagc cacttagcca 240
 cgtgtttgaa tgatttatcc tttgcaccta atttgagctg aatgaattat tgattgattg 300
 aacctgagt ctatagagtg ttatctcttg ctaccttgac ttaagttgta ggagagcatc 360
 atccacagaa agtgtggttc aaagcaaatt tgtcccaaatt tttgcggagt aattat 416

<210> 18131
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18131

ttctttgatg tatgagaaga tgagtggagg gagagggaga gaaggggcac aaaatttatg 60
 catcaaataa ggtctaaact ttgaagtgtg atttcttaaa tgatcaaagt tgaaaaaatg 120
 cacacacaaa agctttatatt atagcctaaa tgtcacacaa aattggaggg aaatttgaat 180
 ttctattcaa aattcacttg aatntgaatt tgtggagcca aaattttgct aattatgatt 240
 agtgaatttc agctatgggt cagcccacta atccaagatc aagtctaata ttctccacta 300
 agtgtgctta gatgtcacga gacatgtaaa gcatgaagga catgcacaaa gtgt 354

<210> 18132
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 18132
 tgtaagatta tgggggtaccc atcacatgtg gtactaggtg tcggtcgggc gatggtgcac 60
 aacaagtttt ccacatccac aaagcgtgct taaaccacc atcccctgtt gcccacctcc 120
 aactgagctc acgtactccc acgtagccca taccctcgtt tctctcaaca ctgggtcccc 180
 atcaatcctg ccaagcttcc ccaacatcaa agtaatacaa cattcaaaca gcacaagcta 240
 tcacagccaa gcaaacacagg gcaaaggcag aaaactctac ccaaacacc aaccaaaca 300
 cagctttcct cacttaaaga cccagtaac aattccttcg ttccggttca ttaaccgttg 360
 gatcgactcg aaaattntac tggaagtctc tagtacataa gcctacattt ggacc 415

<210> 18133
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18133

ttcttgtatt taccactaaa cctttaatct cagggtgcaag ctttccaaat ttcttaacct 60
 tgctcccatg aaaggccac tttaactcag catgttcctt gcaataatta taaataagta 120
 tgtaaaggta attgaccaat aaaatttaag tacaatataa ttacaaatac aactacctct 180
 cctgcccaca cttttgttgt cacatgatcc acatatatga agtaaacatt gatgtatctt 240
 gagggccacc tggaaaactc tgtgaatcat cacatacatc actcgttaact ggatcataan 300
 ggctctcatg aggctcgtca acaacatgat tcatattctc aatatcctct gcaacagctg 360
 c 361

<210> 18134
 <211> 417
 <212> DNA
 <213> Glycine max
 <400> 18134

tccatcaagt ggtatcagag cacaagagct tcatttatgt gtttcttaaa cctccattaa 60
 ttttttgctt taccttttct tccattgttg tttcttcatt attttctcca tgtatctect 120
 cacatgtctt gtgctaaatg ttgttaacat gattctttta agtttccacc gattaaactt 180
 gctataaaag ctagatttga ttttctatgg ttcaaatttc ttgttcttgt tcttgaacca 240

tgaattgtgt tgagtttagg ttcccttgag ttttgtcttg ttattttttg tggctgaaac 300
 ctaaaacata aaattcttac aaaattatta aagtagaaga aaacctcaag aatctagagt 360
 gacttggtca cctattgtac gtttgtcata gaagtcatgt ctagtcatga aacttgt 417

<210> 18135
 <211> 375
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18135

tctttcttta taaattcatc actcttaata ttctgtacac aaaaacttaa atgatgttaa 60
 tttacaatt attttctcag atgaaaaatt agaagagaat aattacaaat tctctataa 120
 tttaccccc aggatatatt catgattagc agctatcaaa ctcccgccaa tttaaattctt 180
 tgtgtgtcct caagcaaac gaaaaagtgt agagtttacc aatcacaatt catgagatga 240
 ctacatacan ttccaaaagc ttcatgtgtc aattctcaag ttacaattg tcataagtgc 300
 atgaaaggag tagaacaaga tgtacttcan atgaaatggt tagcaagaat gacaaatcac 360
 tatgaataat cacca 375

<210> 18136
 <211> 409
 <212> DNA
 <213> Glycine max
 <400> 18136

tgacctcatt tattcttcat aggattcgac agattctaag agaatgcctc tacaaaatag 60
 attttagaca cggagtatta aatgaagtct taaatgtcat atcaaatcat gattocatct 120
 tgctatcatt tgaaacatca gatgcagact tcacgaaaca tgttctgata gcatataaga 180
 cataactttt aacctttgta tttgtttaca tttaatcaaa ataataagg gtcctgggtc 240
 atcttttgac ttaacaatct ctcccccccc cccctcttt tttttatgtc aaacaaacac 300
 aaatttaaaa gttgaaggca aatttataag atttcacatt aaagtgttag tcagtcttat 360
 cagatgcaga aagtatatat cataaataga tcataatata tcataagat 409

<210> 18137

<211> 362
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18137

atcttgaang tgtgtaaccc accattttcc atagtaaaat actggtaatg tgtctactat 60
 cattgtcatc attttttctg caatgaggtg ccacttgagc tgccaagttc tccacctttg 120
 ggcgtattct ttgaaagatc cgtgccccct ttttgacat gttttgtagt tgcacccat 180
 ccaaagccat tatactgacg cagcctaaca aaggcaacca ttangtcctt ccaagaatgg 240
 actcggaag gttccaagtt agtgtaccag gtaacagcta cccagtaag actttctttg 300
 gaaggaatgn tataaaaatt cctcatcttt tgcgtatgcc cncatcntcc gacaatacat 360
 ct 362

<210> 18138
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18138

ttgatgatat ggtcttcacc gacgaaagga tcaatgtggg tctaaaaaga ggcaaactctg 60
 atcatcatgc tttgataaat gccaaaaaaa aactagggca aatgaagagg gtgagaatga 120
 gggagaagcc catgctgtga ctgccattcc tatacagcca agtttccac caacccaaca 180
 atgtcattac tcagccaata aaaaaccttc tccttaccba ccgcccagtt atcaacaaag 240
 gatatcccta aatcaaccac aaagtctgtc taccgcactt ccaatgacga acaccacctt 300
 tagcacaac caaaaacacc aaccaagaaa tgaattttgc agcgagaaag cctgtagaat 360
 tcacccaat tccagtgtcc tatgtgtact tgctccata tctacttgat aat 413

<210> 18139
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18139

cagaccacac acaaaagcac ggggaaaagg aagacaaaca acaccancac cgaaagggan 60

tggacccctg caacacaanc cnnaaggaac nngaccaagn gacagagaga acccaaagag 120
 acaccgcacg agtttgccat accaggaaca ggaacaccaa gggaggaggagg aacaaagaac 180
 cccaacgcga cccccaaggg agaacacacc accacggaga agacacgcac aaacaaagga 240
 gaacacgaga cacgaagccc cacccaacaa ggaaaaagcc acggaacaaa gaaccgccac 300
 cccaacacga gccacggaaa agaagcaagc gacgacgccc caacggagga aaagacaaga 360
 gggagacaaa gagagagggg ggagccacca caccgaaaga acaaacgacg gagagaagcg 420
 caacacagaa acatgccgca caagaacccc cgcaacaaag aaccacacaa gaacacaagc 480
 cacgacg 487

<210> 18140
 <211> 430
 <212> DNA
 <213> Glycine max
 <400> 18140

gacctataaa actcagcttc caggatggcc ccctgcattc agaacttaac ttctaccagg 60
 gatgcagaga cggaagcaa actcttgagg atcaatcctc atcctcgtaa atctggaata 120
 ggtaggcagt gtctcaccct cctctaaaac tattgggggtt tcaaagaagg tatttaggct 180
 gtcagcatca atcttgatta agtgtcctga tgcaatccta ccccgcaagg gcattggata 240
 gaaaactcca agtagattgg gccaaagatg caagagaagg ccctagggtt cttatgagcc 300
 ttagggtaga tttcgggccc atgggctaag tatgagccca cttatctttg taaatattaa 360
 attaggtttt cattatTTTT gggccttgca tttacggctc cataatgtaa gtaggggtacc 420
 ctagaatat 430

<210> 18141
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18141

tttcttggtt gagtaaggcc attagaagga tcttcagttg gcatcgtatc aacatttcct 60
 ctagtgccat cttctatttc aaacctggta ctagaagatg attccaaatc tcttgtttcc 120
 acatgagcag taaagccttg ccaatctaaa ttcttgcaaa tgggttccttg tgaacaaatc 180

taatcacctg atatctcaag tccgttgctt acccagctat taagttcana ttgttgagaa 240
 tgtacagtgg ggactacttg tcagcagcta gctcccaatt tctacatagt attaacatca 300
 ataataatat tctatgacgc tccaaccacg tcggtctcaa taagctgtcg ttgaacaaaa 360
 c 361

<210> 18142
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18142

tcaagaaaaa gatggcctca gcaaattcct tatttccaga agggaattct atcaatagac 60
 ctccaatctt taatggagaa ggttaccact actggaaaac ccgaatgcaa atttttattg 120
 aggcaataga tctaaatgtc tgggaagcca tagaaatagg gccttatata cccaccacag 180
 tagaaagaat tacaatagat ggtagttcat caagtgaaag cataactata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacttaaaa gccaaaaaca 300
 taataacatc tgccctgnga atggatgaat atttcagggt ttcaaattgt aagagtgtca 360
 acgaaatgtg ggacactctt cgattaacac atgaaggaac ta 402

<210> 18143
 <211> 220
 <212> DNA
 <213> Glycine max
 <400> 18143

ttgttttctt tcttatcaga cggctgtggg tactcgtcaa atcaataact gacggtagca 60
 acaacagcgg tgggtggctgc accgaagaaa gaaaccatgg gatccgggaa ccgcacaacg 120
 ctagcaagct gatctgggta ctctacaaat ccatcccaag ggattaagct atatgtttat 180
 aaggagaacg tgggtgctga tactgaaggg atgactcctg 220

<210> 18144
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18144

ntgagactga tccttgcccc accactcttt gtatgaaatg tgatggtgac atgtgcaggg 60
aactgtgtcc taataaagtt ctcatctctt caattattca accttggaat aaatgctagc 120
tgacagtttt tattctttcc ttgtttttt tccttgccct tttcctttaa ctcttttgaa 180
tttgatggat gaatgtatca ttccctgac tctttgtcta tegtgtgcta tgattttttt 240
tctaccttga ggaaaaagta taatccacaa gacagtgatg gattttaata ctatttacgc 300
aattcatatg taaaactaca gctcttttat cactaaacaa tcaactgaatt aaatttcccc 360
aaaagaaaaa agtgacatta ctattagctt aatcatgtca aat 403

<210> 18145
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18145

ttcttgcttg tggggcttct atggaggctg gatctttgag cttcaatggg atcctttaat 60
ggtgattttc caccatggag atgcagcggg agacaaagga gaagatgtga gaggaggcgc 120
catccattaa ggaataagcc atggaaaaaa gagcttcacc accaagatga gccttgata 180
agaagcttgg aaggatgctt caatggagga aaagaaaaga gggagagaaa gagagagggg 240
ggagcacgat attgaaggaa tanaggaggg agagaagtgg aactttgaaa gatgtctcac 300
aagactctca ttcatcanag ttacaaccag tgttacacat gct 343

<210> 18146
<211> 406
<212> DNA
<213> Glycine max

<400> 18146

tgccgccacg gagttttccg actattctct tgtgtggtgg aacaagctac aaaaggagag 60
agcatgatat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatgtt ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccce 180
aggcaacaag ggggttgggg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240

tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
 ccgtgatatt gttgagctgc aagagtttgt tgaaatggat gatttgcttt acaaagcaat 360
 ccaagtggag caacaattaa aaaggaaggg agtggctaag aggagt 406

<210> 18147
 <211> 367
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18147

ttcttctata taagctgaac cattttatca ataaacacaa gttgagtttt attcagaaaa 60
 ttagagttaa tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
 gaacaccctg gctgtatcaa aggactttca caacctttgt gtggtgacct cgctggaaag 180
 agtgattctt tccttccctat catctccacc cttgttcttt caaaccacaa ttccagaaaa 240
 tccacctctg cccaaaatta tctcgtgacc ataactccca ttccacacac tcaaattaag 300
 tgattcttga ngcctaaatg aatntcaaaa cgagaccttt cacctcgttt tggaatcacc 360
 tcatttg 367

<210> 18148
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 18148

tcctctgccg taaaaaagat attatcggcc agtgtttgtt aaaaaattgc gcaatgtcgg 60
 ctgaaaaata tccgtcgggg ctatttaact accgatgtcg gctattgttt tttctattcc 120
 acccctgaat tatatttggga tgatgcctat taggaaatgt tcggtcgggg tcatccggtc 180
 atgcttcttt ttgaggcctc gatctgtcgt ctttcttagc cggccgacgt cggctagcat 240
 ttttttcgat caatatctgt gtgaatcatg tttttttttg ccaaggaggg ctaatgtttt 300
 cgtggccgac aaaatgaaaa catgccagtg tcggccgaaa cacaatcccg cacgaaaaac 360
 cctaaccgac ctacattgta attttttcag gcaataccga acgacaaaac ttc 413

<210> 18149
 <211> 351

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18149

ttcntcaact gaatttacaa cggtccaatc aatttaaaat ggtgtaatcg attacaatat 60
 attggtaatc gattaccaga gtgtttgaat gttgaaattc aaattcaaatt gtgaagagtc 120
 acatcctttc acaaaaatgc tttgtgtaat cgattacaat gatttggttaa tcgattacca 180
 gtgatatgtt ttgaataaaa atcaaaagat gtaactcttc caatggtttt caagtttttc 240
 taaaagttat aactcttcta atgggttttct tgaccagaca tgaagagtct ataatagtaa 300
 gatcttaact tgcgtttttac acacattgaa tacattaatt tcaatccttt a 351

<210> 18150
 <211> 415
 <212> DNA
 <213> Glycine max
 <400> 18150

tgttcatcat ttatattgaa tttatgcttt tctatatgac tctctaagcc actacgctta 60
 ggcttagcga gtgtttaaat ttccagtttt acttctaagt ttgtataaac ttgcttaggt 120
 ggcatgccgt gctcagcgag ttagttagt taggtcagaa tgtttgaggc ttttggtatt 180
 ttgttgccgg ctaagcgagc cgcgctcgct aagccaccat gcctctgagg tttgaataag 240
 cttgggctaa gcgagtcagt ctgcgtaagc ccaaggcaat ttagtggtct gaaattttgt 300
 tcatgcacta agcgagtcat gctcgtaag cgcaatttct tctctgtctt tgaataaggc 360
 ttagcgagcc agactcccta agccaattat gttctagtgg tcaagttggg ctaag 415

<210> 18151
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18151

ttcttgcagc gcatttctga tgaactttac cagaaattgc ggtaggaggt cccaagactg 60
 ggaagctccc agtgaagggt tctgcctttc ttacagctga aggatcatcc agatcaagcc 120
 ttgctataag ttcaccagcc tgcaaaagggt gatacaattt tattatcttt ttcaatttca 180

acaattgtac ttcctatgtg gaatagaatg ctatatacct gcattgcttg accttcagac 240
 attttgaaat gaataatccc agaagcangc gaaagaagag gcatgcacat tttcatgacc 300
 tcaacttcag catacgggtg gtcagcatca acatgact 338

<210> 18152
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18152

ntgaagtgaa aggatgtgac ttttcacatt tgattttgaa tttcagcggt caagggcact 60
 ggtaatcgat taccaaaaca ttgtaatcga ttacagcttt ttgaaaataa ttggaacggt 120
 gtaaattcag tttgaaaact ttttcaaact cattttgcta ctggtaatcg attacaacaa 180
 tctggtaatc gattaccaga gagtaaaaat tctttggtaa aggggtttttt caaaaactca 240
 tgtgctatcc aaagttttga aaaacttttt aatacttatt ttgattgagt cttctcttta 300
 ttcttgaatc ttgatcttga tttttgagat cttgaacctt gaatcttgat tcttgtctct 360
 agactttctt cttgagtctt gaattgttct tgatttttat cttgaactct tgaa 414

<210> 18153
 <211> 342
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18153

atctttgttt gcttgaaaag ttttcagtcg cattagctaa gactgacaaa tcgaaagttg 60
 gtaaataaat ccttttcatt ctctttactt ttctgaaatt ctgcttgga aaatttcttg 120
 caaccctga tacgttgga aataagactt aaaacctttg caccttatat gcacattttt 180
 tagtgcttaa tttcttgtaa tagatgctaa ataatatgca tatacatacc tggattttta 240
 attatccata tccacacata tatgattatt aatccaaaag tagtcacacc acagtgatng 300
 ctactgtctt tatcttgagt ttctatgggc actgtatatg at 342

<210> 18154
 <211> 422

<212> DNA
 <213> Glycine max
 <400> 18154

tgttgatttt agcgttaagg atgagatggg aattgaattg taagatgcat agcaaacaaa 60
 caaacaatc ttttaattata taagagtaaa aatcaagaa ttttttttag ttgcttaaga 120
 gggacaaata cagcaaacta gaagcaacaa gtaacacatc acataccttt ttctgacttg 180
 atcccgagg agtgcaaagc aatgtcgggtg atgccgggtg cggaagagtg gaggtggcat 240
 ccatagtga tgggtggagt tagaatgttg gaattaaaat tggaaagaac ccaagtgcaa 300
 gtagaagaag agtctcaaaa gtcaaaactc attaataaat aaagcatcat catttgatga 360
 tcattgcatt tgatggccta tatattgtga taactcatac tcattaatta ctagatcatt 420
 tt 422

<210> 18155
 <211> 265
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18155

ttttcaatat aacaataatt tttctctcgc ttttattcat tatatataaa tgaagaacta 60
 caaaatttaa aaataaatta ataatgggtg aagattaatt tataaaaata atattctttc 120
 atttatttat ttttttttct tgggtctatat anaataactt aggatganaa ttatattatn 180
 taaaaataaa catatttatt ccgtagcata tctattacaa aatcaatttg gattaaccct 240
 aaattgttca aaatatggta gagaa 265

<210> 18156
 <211> 417
 <212> DNA
 <213> Glycine max
 <400> 18156

tgtacgtgat gccaccgtga tctgccatcg cgtttatctg cttcccaaca cggtgctggc 60
 gtgcatctac ttctcacgga cctccgtcgg actggcaacc ctctccatt ggccagtggc 120
 ggggtcgagg accaggtgtc agcgacgtag ccgccgagga catagatctt gtcgtggagg 180

actcccgcgg cggcgaattc gcagccaacg cgcattggagg gacgaccgtg gagctagtgg 240
 ttgaagcggc agtcgaggag ccaaattgtt ggggatggga cgatggggac agccatggcg 300
 gtgacaacgt caacgacctt aatggcagcc ttctagagaa cgttgccgga gacattgctt 360
 cgtccctctc acaaaggcta tggaaaccta aaaggggagt aaagagagag gggaagt 417

<210> 18157
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18157

tcattcttct atataagctg aaccatttta tcaataaaca caagttgagt tttattcaga 60
 aaattagagt ttatctcttt tatcttagtg agagtgatcc tcttaaattc ttgagtgatt 120
 caagaacacc ttggctgtat caaaggactt tcacaacctt tgtgtgttgc cctcgctgga 180
 aagagtgatt ctttccttcc ttcatcatc acccttgctt tttcaaacca caattccaga 240
 anatccacct ctgccagaa ttatctcgtg gccataactc ccattntacg cactcaaatt 300
 aagtgattct tgagccctaa ttgaatttca naacgagacc cttcacctcg tttgggaatc 360
 acctca 366

<210> 18158
 <211> 414
 <212> DNA
 <213> Glycine max
 <400> 18158

tttgcttggg agaaagaagg acaaccttgt taaatgcctc aggctatagt gaacttcaca 60
 gtgcaaagtc ttggtgattt gcttattcaa gaaggatgat gatagtcatc aggcctttat 120
 tggtaaatct gacatgtcca tctatttgcg actacattta aatgtacact taatattctt 180
 tcatctgcat tcccttgcg ttaatatggg ggttggtctt ttcagatgat ccttttattc 240
 ttactaagtc gtattataat gtcttaatca tgttttgctt aagtcacatg cctcaagtca 300
 atctgacatc agtagtctcc aaaacttagg ataaaatatt cttaaaacgt gggggtataa 360
 atagcaagat aaggggtgag aattacaatt ccctaaaatg gttgggttag ttat 414

<210> 18159
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 18159

ttgcagattt ggtcttcgcc agtgaaatgt atattgtggg tccgaaaaga ggcaaatgcg 60
 atcatactac taggacgact gagaaaactg gggcaaataa agagggtgag gatgagggag 120
 aaacccatgc tgtgactgcc attcctgtac ggccaagttt cccaccaacc caacaatata 180
 ttactcagc caataacaaa ctttctcctt acccaccacc cagttatcca caaaggccat 240
 ccctaaatct accacaaagt ctgtctaccg cacttccaat gacgaacacc acctttagca 300
 caaaccaaaa aaacaccaac taaaaggaat ttgcagcaa aaagcctata gggttcaccc 360
 caaattccgt tgtcatatgc taaacttgat cccatatcca ctcaataatt caat 414

<210> 18160
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 18160

tcaatctttg aatactccag tcttagtcct agaggaccat ccaatgctcc tattcttttt 60
 gccttcaatc tctctctcta cccaaaatac ctaaaaacaa gggtaaagaa tgaagagagg 120
 ggaaaaaagg tcatgggttca aattctttgt taacccaaat taataaatta ataaattaac 180
 aattaatatt tttttttttt ttaaaaaaaa aactatgaca tggtccgtgt atgtaatcaa 240
 tcaccaaact tagttgtact cattttaate ctgactgtgt ggtctatcca acaagctagg 300
 ctcatcaaaa tgggaccagt ttcttgaaac aaactgcatc ac 342

<210> 18161
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 18161

tcttgctctt aatcctgtga gtgtttaatt taatatgctc atttttttgg ctgttctagc 60
 tgcttcagca ttttggttcc tccattctgc catggtatag tggcccaata atagataatt 120
 catgtacttc ctatcaaag caggaaaaag ttaacgtgta tgggtggagct gtgtcattgg 180

ggcatccctt gggttgcagt ggagctcgca tcttagtcac attattaggg gtaacttgtg 240
 accttgggta ctttgtatat ctttttcttt cacccttggc acacaaattc ttatacttct 300
 ccagttagta ttcagtatgc catgcagctg ttatccatta ctttttataa tcttggcttg 360
 attgctacac tttccagatt attgtgatct gtggatatct c 401

<210> 18162
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 18162

catttttttt gtttgggggc ttctatggaa gttggatctt ttgaacttca atgaggtcct 60
 ttaatggtga atttccacca tggagatgcc gccgaagaca aaggagaaca ggaagaggcg 120
 gggccatccc ctacggaata agccatggaa gaaggagctt caccaccaa atgagccttg 180
 gataagaagc ttggagagga tgcttcaatg gaggaaaaga aagaaggaga gaaagaaaga 240
 gggggggcgca cgatattgca cggattaaag agggagaaaa gtggaacttt gaagatgtct 300

<210> 18163
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 18163

tccttgagaa tctagagtgg ggctactgac atttctgcat tagctaagct cacctcgatg 60
 ccaaaatata tgaaaatata atgggaaact tccttgagaa gcaaggaagg tagcttcctt 120
 gggaaaaaaa ggaagaaagc ttctttgaga agctagaggg gggcgactga ttgaggccgt 180
 acccgaatca aataaacatt aaaaatgcag tatctaggaa gtgatcctag gtcgtctccc 240
 aatgagcaat ggtcaagcaa cgttttataat agatagtgat aaaacagtaa cgaatggggg 300
 ggggtgt 307

<210> 18164
 <211> 258
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 18164

gctaaccat ggaagctcct aatatctccc acactttttg ggggtgggcca ttcttggaag 60
gacttgatta tctcaagttc cacttgacc ccatttctac caactacgat acctaagaaa 120
actatattat ctacacaaaa ggtacacttc tctatatttg catagagggt gttttcctaa 180
ggacagaaat aactttctga tatgtactaa tgatctttan gctcctacta tccctaaaat 240
tcatcaaata acaacaca 258

<210> 18165

<211> 405

<212> DNA

<213> Glycine max

<400> 18165

tcatgctcaa gtatgtatgg caaaacttat aattgttggt caagacatac aagtgaagctt 60
gttacaaatc ttctacactt ggagtgatga catgcagtcc tcttgaacct ttaccaccga 120
ctatgacctc atgccaacac tcaagacggc caagacgtat atccttctca atgtagactc 180
aacaagagtc aattgctact tctgcgcata tacctgtgaa caatagatgc ttctggatga 240
tacaaattct ttatgtatcc ttttaagatc ttcatgtatc actcaaccgg gtacatccac 300
cgcaaataaa caagaccaca acatttgatt tctctgacca gatgcacact caagtgaatc 360
atgatgtcaa agatggtagg gggaaaatac atctccaact ggcat 405

<210> 18166

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18166

cgaccagggg actcgntgca tggccnnaca ntnggntatg naccggccat cccgggattc 60
tattagtcga cccgcttcat gtcttcttag cnatatnnnn aaggcatggt tcaattgttt 120
ggttgccctt tatgattatg gttaatcatt tttctgtgac ttagatcact tgttatgtga 180
tgtttgatga agtaagaacg cctgtgcata atgcgtggac tgactcaatc tgtaagggtta 240
tcctatgaat gaaatgatgg gtcttctctc atgcaatact atattggcct ctttatgtag 300
ctataacttt tggccttggt ggccaaaagg cgacgcacgt ttctttgaag aacctacatt 360

gatacttctc aattgattag gatatgaaca taacttgacc ttcttttagg ctcaaactt 420
acgtc 425

<210> 18167
<211> 407
<212> DNA
<213> Glycine max

<400> 18167

ttccgatata tatattgccc cacctattct agtttggtta ttatagtttc gatcatactt 60
ttcctcaatg cactgattct tctttgaggt tgtagctttt tctctccctt cataagccaa 120
gaaatatgta atataagaga gttatcggta aggatatcaa catgccaaag ataaccctgc 180
aaagaaaaaa tacaaagagc aaatgttaat atgaatgtta atctatactt gcattgggtta 240
tgaaagttaa tatgaaagca atatcttaca tcgtgaataa cgaaaataac attaacttga 300
cttaatttga cctaaaggat cactagaaag gtagtctaca tatttacgca tcacatgggtg 360
gggttgaaag cccgtgcacg atcaagtttt gctagaaagc attctct 407

<210> 18168
<211> 333
<212> DNA
<213> Glycine max

<400> 18168

tttctttgag ccaattctaa cgataataac tttttactcg gatgtccgat tgagtcccat 60
aatatatcga cacgctcgaa attgaatggt gaagctctga gccagatcaa acaacaataa 120
ctttttactc ggatgattga tagagtcccg taatataacg agacgctcga aattgaatgt 180
tgaagctctg agccaattca aacgacaata actttttact cggatgtctg attgagtccc 240
gtaatatatt cgagacgacg gaaattgaat gttgaaccta cgagccattt aaacgacaat 300
aacttttact tgggggctga ttgagtccga ata 333

<210> 18169
<211> 397
<212> DNA
<213> Glycine max

<400> 18169

taaacattca atttcgagcg tctcggtata ttactggact caatcagaca tccgagtaaa 60
 aacttattgt cgtatgaatt ggcttaaagc ttaaacattc aactttgagc gtctcgatat 120
 attacgggac tcaatcagac atccgagtaa aaagttattg ccgtttgaat tggctcagag 180
 gttcaaaatt caatttcgag cgtctcgata tatttcggga ctcaatcaga catccgagta 240
 aaaagttatt gtcgtttgag ttggcttaga gggtcaacat tcaatttcga gcgtcccgat 300
 atattacgtc actgaattgg acatccgagt gaaaagttat tgacgtttga atttgctctg 360
 agcttcaaca ttcaatctcg agcgtctcga tatatta 397

<210> 18170
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 18170
 ctgcatcttc ttataagctg aaccatatta tcaataaaca cgcgttgagt tttattcaga 60
 aaattagagt ttatctcttt tatcttagtg agagtgactc tcctaaattc ttgagcgatt 120
 caagaacacc ctgcctgtat caaaggactt tcacaacctt cgtgtgttgc cctcgttcga 180
 aagagtgatt ctttccttcc tttcatcttc acccttgttc tttcaaacca caattccaga 240
 taatccacct ctgccagaa ttatctcgtg gccataactc ccattctacg cactcaaadc 300
 aagtgattct tgagcctaaa ttgactttca caacgagacc tttca 345

<210> 18171
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18171
 tcgccggatg atgccgatcg atcatttccc aatttacatc ttccactaat tattcacgga 60
 tcgaatagaa taaacaatgg ccggtgtcgg tcgctatatg gccccgactg atatccttca 120
 gccgacattg cgcaatttct tttacaaaag ctggccgata atgttttttt acgtgagaag 180
 aagttctttg tttttggatt ccctacaaaa ttctacgatg tacgtcggct aagtttatcc 240
 ctgcgagctc aaccacaggt gtgattcggg cgacactggc atggtctcat tcattaggcg 300
 cccaaaacgt tagcccaactc cggcacaaac aaacatcatc aacggagatt gattaaaaat 360

aatgataagt gacgtcggcg tggacagatg accgatcgag ggctctacat gaagcat 417

<210> 18172
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18172

tttcttgctt caatctagga actgtatttg ccccttttag aaggcacata aaaatctttg 60
ggttgagaat tttccaagaa aaataaggca aagaccccaa accttagaag cccaaataga 120
aaccaggatc ttagtttcag ccacgcgaat ccacgcaatg caaaagattc tatctttggt 180
aggcaacaca gtcacatgtag agtgtccatt tcacatgtag ccaaaacaag ttcaattctg 240
atgttntgga ctgtgtcaac tgatgaatga tgcaaaaacc attagaggtg gcactcttan 300
gacccccaaa gttacaacca tgatattgtg atgagtcaat cacgtgtcat gcaactaggt 360
tgaaaaataa tgc 373

<210> 18173
<211> 427
<212> DNA
<213> Glycine max

<400> 18173

aataactcaag ctgttgactc tacctgagtc agtggtcctt acctttttat ttcattaaac 60
aacaccctca aatcctatca aaattctggc cttattttgt tatctgtgta acattactta 120
tggttgaaatt actgtttaaa gtaaattatt tgatagtgtg caattttagg gtaacctgtt 180
caattctaag tctctatcag gattacaaat aaaagcaagt catttatgaa taatccttat 240
ccttactact ctaaacatga caactacaca agacaagttt cattgaccac tacttttact 300
agaaatcaaa gccttgaatt ctggagggtac aaaagtcgaa aatcaatgc ttcataattaa 360
gtttttttgtt gtcaccacca agggtagaat aacatttact catgattata attaaaataa 420
tgaataa 427

<210> 18174
<211> 340
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18174

ttcttctggt atcttggaat ttaacatagg agcattttga ttacaaattt acaatctcga 60
ggaatttact gaggtgaaga tgatatatgc agtacgattc acttgcaaaa taatctagat 120
gaaaacaaaa catattgggtc ctaaaaacta aaccatattg attttctggt gtgaatgcaa 180
tcaattgttt aaatatcatt cttcttaatt gttttttatc ttaaaattgc atgggttacta 240
gtctattttt gtgaaaggct aaggaaaatg gttactagtc tatgtaagat tangagttaa 300
ggactgtcat natttctaga ataacatttt gcaattgcta 340

<210> 18175

<211> 385

<212> DNA

<213> Glycine max

<400> 18175

tgccaccag ctcaccagc caagcaagggt tgctttcttt ataacaaccg ccttctggag 60
gaagaatctg gaatgccccaa gtgggcttga ttgctatttg taccctcctt tttactaaat 120
gtaccctctt ttaccttttg tgggtgattct ttttccgtaa cgttacgaaa ctttatgaat 180
tttgtaacga tacttatttt ctttccgtaa gggtacgaat ctttactgat catgtctata 240
ctctttttta gctgtcgaag aagttactga aactcacgga ttgcgcaaca acacctcctt 300
ttgggttttcg ccacattaca gaatttcacg gatcccgtaa ccctgtttcc ttttgatttc 360
cggcgctct catgacttac atatt 385

<210> 18176

<211> 329

<212> DNA

<213> Glycine max

<400> 18176

atcttcttaa cggttctttc tccgccatca tccctaaccg aagaaaaaag gttggattta 60
aaaagaaaaa ggaaaaatag agggaaagag gaagggtggt tacatacga ggggttgattc 120
cgttacgggc ggggagggag aaggacttct tttgatggcg tttggtcttt ttgttgatgg 180
aggaagcttc agtgetgctc attcttcttc ttctctctgt gtttcgatga atgaatgtta 240

atcagatttc gcgcttaaatt tttttctgtg tgaatgtgcc aaatttttat gatcctcttt 300
ctctctctct tctcttcacg caaatcacg 329

<210> 18177
<211> 419
<212> DNA
<213> Glycine max

<400> 18177

tgtgatgaat gcaataactt agtcgttagt ttatataggc tgcaaaatca aattaataat 60
ttatgatttt ttttaatatc aaacaaattc acctaagttg cgtgagtatg tgcataaagc 120
caacaggact gtgcaaacgg atgaatttgg ataattttta ttgggtcatc agcaaagtga 180
cagttagata aagataaatg ggtgctttcg atttcttcac gcacacatta tatatataaa 240
tatagagtgg gattaactca ctcatattat aattttaaag gaattatttt tatcttaata 300
atttattttc ttaaaattta atgattaaaa ttggttattt gttataaata ttagatttta 360
agaaaataaa tgtttagaat gaagagtaat tataagagtt attcttgaaa taagtttat 419

<210> 18178
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18178

gatgatgatt gcatgacctt tatgcatctt tgcttctcat gagaaattca gaaatatctc 60
ctttgttgac ttttaaaagt gatttttagaa gaatagatcg caaaaagact cataagagag 120
aanaaacaag agagggtatt tatagatntt natgatnaaa ccgctataat cgattaccaa 180
atcttggtat tgattatttc aatcaaatac cttttgtttg catttccagg atcgtggtat 240
caattacacc aactagtaat caattatatc aatcaacaaa gagcaaacaa aactcttttag 300
aagtagttgt aatcgataac tgaaagtggg atcaatatct cgatgtatag agtttctt 358

<210> 18179
<211> 413
<212> DNA
<213> Glycine max

<400> 18179

tcttagtttc agatgatgca gatgagtttg tggctacctc atgcactcct ctaatgacta 60
tagcatcatt tctagcgcta aactactggg agtttgaagc catcttctta attaaatttc 120
tggcttcaac aggagtcatt tctctaaggg ctccaccact ggcagcatct atcatacttc 180
tctctatgtt attgagtcct tcataaaaat attggagaag aagctgctcc gaaatctgat 240
ggtagaggga actgacacat agttttttaa atctctccca gtattcatat aggctctccc 300
cactaagttg tctaatactt gaaatatcct ttctgatggg tgtggctctg gaagcaggga 360
aatctttttc taagaatact ctcttgagat catcccagct cgtgatggac ctt 413

<210> 18180

<211> 361

<212> DNA

<213> Glycine max

<400> 18180

tcattctttt tggagtagaa acatgggacc aactcatttt atttcaaaaa ggaagtcgta 60
tctagtcaag gtctgagaga ccatacaagt ttcttaacga tttctaattc tgtgggcat 120
taagtctatc atatgctgac aatagccgag aagcccatga atctcttcgg gggcggagta 180
agtgtctgcc atcgcttgg ccttggctaa caatcgggga agttcttgac tcccgttcaa 240
ggtaagagca aaccgatcca tccacatggg tgctcttgg tgtaagagtt gatcaccctt 300
cctctagcct ctttttcgcy tatacttggg catattcgtc cgcaatccta tgctcgtggg 360
c 361

<210> 18181

<211> 412

<212> DNA

<213> Glycine max

<400> 18181

tatgctgcaa acattacaac agacctctc aatttcagca gcaaaatcaa ccacagcaga 60
acaattatga cctctccagc aacagatata atcccggatg gaggaatcac cctaattctca 120
gatggtctag cctcaacaa caacaacagc agcctgctcc ttcttttcaa aatgatgctg 180
gcctaagcaa gccatacatt cctccaccaa tccaacaaca gcaacagccc cagaacaac 240

aaacagttga ggctcctcog caaccttccc tcgaagaact tgtgaggcaa atgactatgc 300
 agaacatgta gtttcaacaa gagaacagag cctccattca gagcttaact cgccagatgg 360
 gacaattggc tacacaatta aatcaacaac agtcccagaa ttctgacaag tt 412

<210> 18182
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18182

ttcttgcttg tggagcttct atggaggctg gatctttgag cttcaatgag gtccttcaat 60
 ggtgattttt caccatggag atgcagcggg aggcaaagga gaagaagata ggggaggcac 120
 catccactat ggaataagcc aaggaagaag gagcttcacc accaagaatt gccttgata 180
 agaagcttga agaggatgct ttaatggagg aaaagaaaga gagaaggggg gagcacgana 240
 ttgaaggaat aaaagaagga aagaaatgga actttgaagt gtatctcata agactttcat 300
 tcatcaaagt tacaacaagt gttacacatg cttc 334

<210> 18183
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18183

ttttcaaagt caagtttgaa aatcatgctt gggttatttt tgaatttagc ttcagctaag 60
 acctcattag ctatcattac accatggagg atatgtctgc ctttgaggaa agcaatttgc 120
 acagaactgt atctttcaag tgactttgga tagggtaagc actaatctca tccaagaaag 180
 ccacagttac tccctectca tgttcaaata ggtgtctect ccatttcaaa tcccatctcc 240
 aaatattctg gtagaagcta cccatgggtg aaataagatc gttctgctgc ttactaatgg 300
 tgaagagcta agggatatttg tgatccagac tgcagccctc tccagccaa ttgtctttcc 360
 aaaatcgaat tttatcccca caacctgcct tccacaccag attntgatga ataata 415

<210> 18184
 <211> 521
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18184

accacgcgct acgcgaagga ctacgcgaga cgccgacgag aattggataa acgaaacaaa 60
ccacaacaca agannagagt gnattgatga cgtcgtagga accaccagan gagcgaaacg 120
agccccgcac ccggagatcc tcaaaaagca cagcagcagg catgcatgct taacaaggag 180
gtctaaacca aacaacccaa cggaagaaaa gaagctggac ccagcccaa aagggaatgc 240
aaaaaggaga cacaagtga accaacaaca accacagcat aacgatgcag gacgcgcagg 300
aaatacaccg acatgcaaag gggaggggga aagcaaaacc caaagggccc aatcccaaag 360
cagcagccat tactacctct cagctgagaa gaaagagccc tcaggaagg aagggacgag 420
gaagaaaaaa cgcgaaacgta accagcccac caccacacga ggaggaaacg gaaaaggcac 480
aaaagagaag agagaaccaa gaacgaaaag aacaaggagg g 521

<210> 18185

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18185

agcgaccnat aaaactcagc tnacggagca ctaagaccga gcggcgatat ccctaagttc 60
taaacaccga agaatccgaa agggccttac cttactgact caggtccaac ccctaaaata 120
atttttgcac gcatacactg ctgatgaatc atacaatacc cagcacctca cactcgtgtt 180
gcaaacacgt ttaacacatt gcgatacaat ataacacttt agactcctaa ctaggaatcc 240
tacacttate ctttaacatt gcgcataaac acttgtctca aggtaaacac gagacaggat 300
atcgaataat tcacaagcta caatacaa atcggcacat caagtgcgac ccaccactaa 360
ttcacacca aattgcatgt ctacacacta acatat 396

<210> 18186

<211> 334

<212> DNA

<213> Glycine max

<400> 18186

ga

362

<210> 18189
<211> 413
<212> DNA
<213> Glycine max

<400> 18189

ttgctgattt agttttcacc gacgaatgga tcatagtagg tatgaaaaga ggcaaattta 60
atcatcttgc ttggatgaat gagaaaacta gggcaaatga agaggggtgag aatgagggaa 120
aaacccatgc tgtgactgcc attcctatac aaccaagttt cccatcaacc caacaatgtc 180
attactcagc caataacaaa ctttctcctt acccaccacc cagttatcca taaagggtcat 240
ccctaaatca accacaaagc ctgtctaccg cacttccaat catgaacacc accttttagca 300
tgaacaaaaa caccaaccaa ggaaggaatt ttgcagcaaa gagcttatag aattcacccc 360
aattctggtg tcttatgcta acttactccc ttatctactt gataatgcaa tgg 413

<210> 18190
<211> 274
<212> DNA
<213> Glycine max

<400> 18190

aggcaattca gctcgggtacc cgggatctct aagcaccgca gctgcttctt tgctgaggggt 60
tatattctaa tttctaacct tctatgatga agatggcaaa tctatacagg gaaacaaaaa 120
taagtacctg ttagtcatca tctacaacta acttttgtat agaaaagctc tatacaactg 180
tttatcgttt cccaatttta tgggtctttt cgtaagtttg tacatagttt taggtttact 240
ttaattttgt taattagaaa taccacaacat tgtg 274

<210> 18191
<211> 411
<212> DNA
<213> Glycine max

<400> 18191

tcatgatgaa tcaaaggtga ttcaaaggtg tttagatgat aacaatagtg acaacaaagg 60
tgatgaacaa aaagctcaaa gatcaatcaa agaacaactc aagtgaatca aagaatatct 120

caagtgaatc aagaacaagt caagagttca agataagaat caagaagaat tcaagaactc 180
 aagaagaaag tctagagaca agaatacaaga ttcaaggttc aagatctcaa gaatcaagat 240
 caagattcaa gaatgaagag aagactcaat caagataagt attaaaaagt ttttcaaaac 300
 tttgaatagc acatgagttt ttgacaaaac cttttaccaa agagttttta ctctctggta 360
 atcgattacc agtagtaaaa tgagtttgaa aaagttttca actgaattta c 411

<210> 18192
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18192

atcttttgtt tatcgattac actgatttgg taatcgatta ccagtgatag tttctgaaca 60
 aaatcaaaag atgtaactct tccaatagtt tttcaagttt ttctaaaagt tataactttt 120
 ccaaattgggt ttttaagttt tctaaagggt ataactcttc taatgggtctc ttgactagac 180
 ttgaagagtc tataaaaagca aggctntgag ttgcatttta tttttcattc attctttaga 240
 caacaaactt ttgccatttg atttctgaat ctctttgaac tccttcttct tcttcctttg 300
 ccaaaagctt tcttaaagtt tctgggtttc taaacctttg aaacaaaact tgtgctattc 360
 atc 363

<210> 18193
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 18193

tataagtaca aaattgccta aatcatttcc aaatatgcat gtgaattagg aagcatcaac 60
 gagaattaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaaagatta 120
 tgatgatgga tgggtcaaatt tctcaciaag gtcttatcac tttcaaattg agctttcaaa 180
 actatcatga catgtaaagg aaaaaaaagg atttcaagtc acaaaatgtt aagagacttt 240
 tattttcaga acaattaccc attgtcgcaa cgtgcccttc gcgggcgagc gagggcgagg 300
 ctcacgggtg cgctttccaa aggaggaaag atgcgcggag ttgccaccaa cgttttatttg 360

tgggaaacgt tggaaaaacc gaaagaaacc ggtcaaaatg aaaattctaa gttcgggag 419

<210> 18194
<211> 229
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18194

ttcttggttc ccanagctct gatcaagctc tcgcacaatc tagaggtaaa catatgatct 60
ctatcataca ctgatgcaat cctacccacc accggtgttg aatagataat tccaaaaggc 120
ttgagctaca ccttactaga caggccctac ggttctcatg aaccttacgg cacattttag 180
aatccatggg tcaacgatgg aaccacttct ttttgcceat ctaccaata 229

<210> 18195
<211> 398
<212> DNA
<213> Glycine max

<400> 18195

tggtagattt ggacattgcc tgtgaacgga tcatttttgt tctgaagaca aggcaaatta 60
agtcatecta cttgtacgaa tgacaaatct aaggcttgtg aataggggtga taatgatgga 120
taaccccatg ttgagactgc tattcgtata cagcctaaca tcccaccaac cgagcaatgt 180
cgttactcat ccaataacaa accttgtcct taccacctg gccagcatcc acataggcca 240
tccttaaaat caaccacgaa acctacctac accacttgca ctgacagaca ccacctttat 300
cagcaactca aacacctgcc aataaatgaa tttctcctgg agatagcctg tcaaaaacac 360
cccacttcca gtgtcctatg ctgacttgct ccatatct 398

<210> 18196
<211> 300
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18196

atcttacaaa tatgttntaa atccaagccc ataagtaaaa tcaaatcaaa tctagataag 60
ataagataag ataagatcta gatgaaataa tatctagatg aggtcaaadc taaataatat 120

ctagataaga taagatctaa ttttatagaa taaattagtc tgcctcttc aagtccaagc 180
ccaattctag attcaggccc aatgcttcat taattcctgc aattagaata aaaacatcaa 240
attagctgaa tgggccc aaa taatanaact gcctaataaa tttgacaatt aagactaatc 300

<210> 18197
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18197

tctaaacttt gtacaagaat gaagctctga tacctcttgt tttacaagtg gcctcagata 60
tcttaagaag ggggggttga attagatat tccaaacttt tctcctaatt aaaaatctat 120
cttacttttt acttaagtta tgaattccct taatgacaat cttcttaaatt attaatcaa 180
atgaagcaac ttgaattatg aatataaagc aataataaat aaaggagatt aagggaagag 240
aaaatgcaaa ctcaagtttta tactgggttcg gccacaccct tgtgcctacg tccagtcccc 300
aagcaacccg cttgagagtt ccactaactt gtaaattcct tttacaagtt ctaaacacac 360
aaggacaacc cttcctttgt gtttagagat tctntacaac aagagactca cagtctc 417

<210> 18198
<211> 233
<212> DNA
<213> Glycine max

<400> 18198

ttctttgaaa tctcggataa accaaatcat gttgataaat tgcaaaaagc tctttatggt 60
ttgaaacaag cccttagggc ttggtatgaa cgcttaagta aatttcttct aaaaaaagaa 120
ttctctagaa ggaaagtggg taccacattg ttcatacaag aataagcata atgatatttt 180
ggctgggtcca aaaatatgat gatgatataa attttggaa cactaatgat tca 233

<210> 18199
<211> 415
<212> DNA
<213> Glycine max

<400> 18199

tgtgcattca atatcctgat gaggatgttc catatgtttt caagactgga ctaatacatt 60

tgctgccc aa gtttcatgat cttgcagggtg aagatcctca taagcatctt aaggagttec 120
 atattgtctg ttccaccatg aaatcccttg atgtccaaga agatcatatc tttctaaagg 180
 cttttcctca ttctctagag ggagtgggcga aggattggct gtactacctt gctcccaagt 240
 ccattaccag ctgggatgac ctttaagaagg tgttcttgga taaattcttc cctgcatcta 300
 ggaccactgc catcagaaaa gacatttcag gcatcatgaa acttagtgga gagatcttgt 360
 atgagtactg ggaaagattc aagatattgt gtgaaagctg tcctcactac cagat 415

<210> 18200
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 18200

gcagcattct tttcttaa at aggtcagctg aaaagatgac ggaagcacga tgttgggccc 60
 gctagactcg tgggtcatgc caaaccaacc acatacagag ccaaccaaca gccaaaccaa 120
 gaggtcgctg gaaagtgggt tgagtgaaaa cgtaatgtgc caciaagggg atcgtgcgtg 180
 aaggtgacat gtcggagtct ggggagcgtg gtggcacatg cggaggcgtt ggggttgttg 240
 gagagagaca ctt 253

<210> 18201
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18201

aggacctata acactcagct tcatgcagga aacatgctat ggcttttttt tcttaattcg 60
 gttttagaat tagaagaaac atgaatatta ggatttgctt gtgagagttt tcgctcgaat 120
 atgggctgcc ccatgtttga tactttacat agaggtagtg tggaaaacac cttgcaatag 180
 tgtgtataca tatgtaaata taaggagcat gaaattccta gcaaagtgtg aatgattgtc 240
 ttctaaatg aatgtatgat agtgtggaat acctttttga atgcaaata gtgcaggatg 300
 taattagctt tccaatatgc atataaataa atatgagtga aacagtcaaa atttgatgg 360
 cgtacttcaa atgtatgtaa gtagtgtgtg atatcaata gttaagatat aaatta 416

<210> 18202
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 18202

cattatttct ttcgctggag ctgacccatt aactgccta actccttttag actggtgggc 60
 cctaagctct tgaccttgac ttgatagaac ctttttttaa acgaaggcgt ttgacttgat 120
 cccattgttt actaaagtga aacaaaattt agtgcgatc aaaactccga catccatcat 180
 ggggtggaatg gatgaatgca tgaagacatg catatgacat agatgcaatc tatgattaca 240
 ggaccccgga aat 253

<210> 18203
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 18203

gttttggttg tgcattctct tctctgtttg ttgattcttt tcatggctag gctggtaaatt 60
 gccacaact tctcctgtca cagttgggtg ttcccaaac atgtctctca ccttttcaaa 120
 ataaccgtag ctcaaggatg tcatcagcac agcttttgat ttcggctttc ctggtgaatt 180
 aacaatatcc ccttttgggt taacatcagg caaaagattc tccttcaaag tgcaagctaa 240
 gatctgatcc aacacatggt gaaatgggtcc agttctagta tcaaactctc ttatttggat 300
 gcctactctt tcatcaacgt cagctaaata agcttgatag tatctgctaa caagtcctca 360
 tactttgttg gtaggggtgga acagatatct acccaagaaa t 401

<210> 18204
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 18204

ttcttctcga tatgtgatgt gcatgaatcg aacatccgag ttaaaagtta tggcgatttg 60
 aatttctcga aagctttcgg tatttaattt tgagcatctc gacacatgat gcgcccgaat 120
 tggacatccg tgtgaaagtt aagaccactt gaatttctcg agagcttcgc tattcaattt 180
 ggagcgtctc gatatgttat gcgcctgaat catacatccg agtgaaaagt tatgaccatt 240

tgaatttctc aagagcttcc gttgttaaatt ttcgagcatc tcgatatgta atgcgcctgt 300
atctgacatc cgagtcaaaa ggtatgacct tctgaatttc tcgagagctt c 351

<210> 18205
<211> 384
<212> DNA
<213> Glycine max

<400> 18205

tcctctaccg taaaaaaaaat attatttgcc tttgttttta aaaagaattg cgcaatgtcg 60
gcagaaaaat atcagtcgtg gctatataac gaccgatgtc aggtattttt gtttcaattc 120
aatccctgaa taatttttgg atattgtcca ataagaaatg ttcgatcggc gtcacaaagt 180
gatgcttgct ttttatttta gacctgctgg atcggtcac cttcctggcc gacatcgact 240
atcatttttt ttatcagtgt cgggtgaataa tggtttttgg ccgaggtggg ctgatgtttt 300
tctagccgag taaatgagaa cacgccagtg tctgccgaaa cacagcttcg gttgagctcg 360
cacgaaaaaa caaagccgac ctac 384

<210> 18206
<211> 293
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18206

ttcttgtaga caataggtaa ggaaaactct accttatggg ctattgctta atctgattgg 60
aagggttggt tatgcttcaa agcatgtttg atttttgtgg gttggtggaa tttggtggtg 120
ggtttccttt agagtccttg ccccttgat gcttttgatt tgggaattct tgatgaaatc 180
ttgtatatgt ttaattgatg gttgatttat gtttttttgg acttggtgtg agtattngna 240
tggttttgaa tcatttgtga gtgtttggaa aggtagagag taatgaagat acg 293

<210> 18207
<211> 403
<212> DNA
<213> Glycine max

<400> 18207

tgaagctcca ggaaaagctt gaagatgttt tgtttatgtt ttggctttta catgcctaac 60
 tcccttgagt ggcatttgta ttgggttgta tcttggttgt ttcattcttag tacattttga 120
 tatttgatt gcatcatgca tcatcgtggt ttatgtgaag aaaagcttct aagttagaaa 180
 gtttattcag aggaaataac tctctatttt aatcggttac atcctcatcg caatccatta 240
 caacaagttg tctaaagctt aaagagttga gtctcatatt agtttaatcg attatagtag 300
 tcttttaatc gattacactg ttgtttgaga tagtgactga tttattcagg agtctctgct 360
 ttaatcgatt gccttgagca gagtacttat tagacctatt ttg 403

<210> 18208
 <211> 331
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18208

agctttaatg tgatgcattt ggggcaggca taggtttgtg ttgatccaag aagggcatcc 60
 tattgcatat ttttttagaa actgaatgaa gctgctctta gttattctac atatgataag 120
 gaattgtatg ccttaattag agctttgtag acttagcaac attatctctt gcccaaggaa 180
 tttgttattc atagtaatca tgagtctttg aaatatttga aaggacaagg aaagttgaac 240
 aagaggcatg aantttttat tcatatgat catgagtctt tgaaatatct gaaaggacaa 300
 ggaaagttga acaagaagca tgctcttggt g 331

<210> 18209
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18209

tgtaggatta tggggtaccc atcacatgtg gtattaggtg gcggtcgggc gatggtgcac 60
 aacaagtttt ccacatccac aaatcgcgca taaaccaccc atccctgtt gccacctcc 120
 aactgagctc acgtactccc acgtagccca tatcatcgtt tctctcaaca ccgggtcccc 180
 atcaatcctc ccaagcttcc caacatccaa ttaattcaac atccaatcat catggactaa 240
 caaaaccaag caaaacaggg caaaggcaga aaactctgcc caaaacacaa ctcaaaatca 300
 cagcttttct cacttaaaga cccagtaac aattccttct ttccaattcc ttaaccgttg 360

gatcgactcg aaaattttac tggaagtctc tagtacataa gcctacattt tgacc 415

<210> 18210
<211> 361
<212> DNA
<213> Glycine max

<400> 18210

attcttttct atgcagagaa tatccaagga aaataccttc atctgactta gcatcaaatt 60
ttcctaagtt atctttttcca ttattcaata caaaacattt acaaccaaaag atatgaagat 120
gagagatggt tgggttttctg ccattgacca attcatatgg agtttttcttt aaaatgggtc 180
ttattaaagc cctattttaa ctgtagcatg cagtgttaac ggcttcagcc caaaagtatt 240
ttggaagagg agtatcattt aataaagttc tagcaatctc ttccagagat ctatttttcc 300
tttcaacaac accattttga tgaggggctc ttggtgcaga aaaggtatgc ttaatcccat 360
g 361

<210> 18211
<211> 412
<212> DNA
<213> Glycine max

<400> 18211

tctagcacac tctagatatt ttctcaaaga tcctttgtgt taatcatgtc aaagtttctt 60
gtgaagttgc aaaccaaatt tagagaagct ccaacggcta acgaaggctg ggcagcggtt 120
ctaccgaggc agcttcatgt agttttctct agaagcttca ttaagaggct tcctccagaa 180
gcttcattaa gaggttctg gcacactcca gacatcttct caaagatccc aacggtcaga 240
tcatggaaaa gtgttttctg aagttgcaga ccaaatttcg agaagatcca acggttaatg 300
aatgttgggc agcgttttta cagaggcagc tacatgtagc tctctctaga agcttcatta 360
agaggtttcc tctagaagct tcctcgtggc ttctttgaga agctttctca ag 412

<210> 18212
<211> 281
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18212

ttcttgttgt ttgataatcc ctacaaaatt ganagtttaa ttctttaatc taatccgatt 60
tgaagttcat acaaaatcca gtaaacagta ggtttttatc caataagttt taatttgaac 120
caaaactttc cttatttctc tcttttccac tttcaaaatt atttgaaatt taaaaaatgg 180
atcactggat cataattgat aataaattag ttcaaaacta caggtaatac aaaggtaatt 240
attttggat gacttcaaatt ttatcttaatt tcacataaac c 281

<210> 18213

<211> 415

<212> DNA

<213> Glycine max

<400> 18213

tgtaatgat tgttttctc ataaattaaa aaattgaatt atttataaag gaggaaaagt 60
acaactaaga caagttatcc tccaatggtg gcggcttgtg ttttgccatt ctgtttatgt 120
ggaacatggt tctgctttct agttcttggg ctaccatttt tgatgtgggt aacgtagatt 180
attaccatct tttataccca gaaaatacat gctgctatgt tgaaattttt ttttttagga 240
agaaacctat agtacctgac gtgctatccc accaacacat cacaatgta tctcggtgt 300
ttgggtatttt gtttccactg gacttcaaatt ttatttggtt ttagatgctt gccatgtttt 360
gttactattg aacagaagtg taattcactt agttaacaat gatcttattc ttgat 415

<210> 18214

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18214

atcttgagcc atcacccaat cttgcaacac aatggtgggt ccaaggttat caaactcgac 60
agtttacgta aactcgtaag agttccatag actcaactcg tagacttata cgagtccact 120
tcatataaaa ataataacaa aatatctata aataacatac caattaaaca ttttaacaat 180
ataataaagc aaaatagtaa atcataaatt tcacaatact gaaataacca agtctagtaa 240
tgcactacta ctagataata acttgcagat tntatagtag tggtagagca ttcccatcaa 300
ggatntgatg ttattagaga ata 323

<210> 18215
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18215

tgaagtgaga aagtatggaa gagtcagtct tcctactttt attcattgac cacaaagtgg 60
 tacctggaga tatgtcgcgg gggtcaggag accttgggga cgtcagggtga ggtgctattg 120
 cccaaaacca agcttgacca atcccgaccc aaccgggga tagtcagtca gtgagaacct 180
 gtgacgtacc taaacaggcg agctcctggc agtcaaccga taaaagaaca aagaccacaa 240
 agcaaggagg cttgtgtggt ggctggccag ctatgaatct tgagtggtag ttggaatatg 300
 acctctagta ttcgattacc aagggtgtgt aatcgattac aaggattaaa aatgaagaca 360
 ggaagttaag atggtctctg gtaatcgatt accaatggtg cgtaatcgat tacca 415

<210> 18216
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18216

ttcttgatcc caaacgggtg agagtgtgac cttactctgt gagtgaacga ctagctatga 60
 gtgataatct ttgcataaat ctctgatttt tagaatgaaa tgtataaatg aggacatgat 120
 gaaggccatg attgtacata cacaagctct tttgaccaa caacttacca tgaatgataa 180
 ttgcatcctt tgctcccttt ttgagctgaa tgatattgtc aaaaatttga accctgaact 240
 taaataatta tctcctgatt ccttggttag attttagaag agcatatggt tcaaggcaaa 300
 ttactctan attttgggag ggaagtcaat tagaaatgaa a 341

<210> 18217
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 18217

tattgatttg tcatgaattg aaccctgaac tttaaagag tatctcctaa ataccttggt 60

tagattctag gagattatat ggttcaagga aaatttactc taaatttggg ggaggaaagt 120
 caattagaat gaaaagaaaa aggttaagca tcagcacaca caacaaataa gttgtatgtt 180
 aaaaaaata agttgtgttg ttacaaaaag gtcgaaagta acttaagaaa agggaaatagt 240
 gagaaggcta tttgtacaaa acaagaaaag atcattggga ttagtctagg acttgtgctc 300
 tcttagaatc taaacttttg aatcctagaa aaaccagtga aaatttttgt agccacaacc 360
 tcactacaag cctgagaaaag tccttctgat tctatttata tatttctgac ttgattac 418

<210> 18218
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 18218

gcatttctga tgaactttac caaaaattgc ggtaggaagt cccaagactg ggaagctccc 60
 agtgaagggg tctgcctttc ttacagctga aggatcatcc agatcaagcc ttgctataag 120
 ttcaccagcc tgcaaaaggt gatacaattt tattatcttt ttcaatttca acaattgtac 180
 ttcctatgtg gaataaaatg ctatatacct gcattgcttg accttcagac attttgaaat 240
 gaataatccc acaagcaggc gaaagaaagg catgcacatt tttatgacct caacttcagc 300
 atacggtgtg tcaccatcaa catgactgtc atctgcaacc aaatatct 348

<210> 18219
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18219

ctgaagtgaa aggatgtgac tcttcacatt tgaatttgaa tttcagcgtt caagggcact 60
 ggtaatcgat taccaaaaaca ttgtaatcga ttacagcttt ttgaaaataa ttggaacgtt 120
 gtaaattcag tttgaaaact ttttcaaact cattttgcta ctggtaatcg attacaacaa 180
 tctggtaatc gattaccaga gagtaaaaat tctttggtaa aggggtttttt caaaaactca 240
 tgtgctattc aaagttttga aaaacttttt aatacttata ttgattgagt cttctcttta 300
 ttcttgaatc ttgatcttga tttttgagat cttgaacctt gaatcttgat tcttgtctct 360
 agactttctt cttgagtctt gaattgttct tgaattttat cttgaactct tga 413

<210> 18220
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18220

tagcttcaca tggagctaca tcacagcagc tgctactgtg cacccaacat tgctcgcttct 60
 tctcttcgcg cctcttctcc tcattcgtgc ttcttcaag agtctcttct ccacctctac 120
 aagtctcatc tctctgtca tcatgagtag tgttggtgcg tcgataatga gtttttattt 180
 ttgggactct gntactcca ttcagatttg caatccatat gggacatgcg aaatacgaaa 240
 tacaaaatac aaaatcataa cttatatgga ttgacaattc gtatgtttca tacagattag 300
 cataaattga agttacaaac aaaaaaacta acct 334

<210> 18221
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18221

ttgcggtattt ggtctttgcc ggcaaaagga tcatatctgg tctgaaaaga ggcaaatttg 60
 atcatcctac tttgatgagt gagaaagctg gggcaaata agaggatgag aatgaggaag 120
 gaacccatgt tgtggctgcc attcctacat ggccaaattt cccaccagcc caacaatgtc 180
 atcgcttagc caatatcagc ccttctcatt acccactcc cagtcatcca ccaagtttgc 240
 tagtcgcaca tccaatgcc aagcgcaaac aaaacaccaa ccaagaaatg aattttgcag 300
 cgaaaaagcc taaagaattc accccaattc cgggtgtcta tgctgacttg ctcccatatc 360
 tgctcgataa ttcaatgggt gctataaccc ccgccaaggt tctcaacct ccttt 415

<210> 18222
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18222

cattctatct tacgattaaa aacactatga caaattacat tgacacccgt tatagtttct 60

tgaaatTTTA cacgatattc attgtcccct acctTTTTTA agcttatagt aactcccctt 120
aattgtttga aaaacattaa accctgtacc ctttatacct aagaaacaca ttacatcata 180
aatcccctgac actcctgtgg tttcttgaaa ttttcacacg atactcctag tccactacct 240
ttntaaggta actcctttga actgtttgaa gcacattgga caatgtatcc ctattatcca 300
agaacacata acatcttgca tcctataat 329

<210> 18223
<211> 415
<212> DNA
<213> Glycine max

<400> 18223

tcattgatgat gaatcaagtt gattcaagtt gttttaatga tgaaaaagat gatgacaaaa 60
agcctaaaga atgatttcaa gattaagttc aagatcaaga ttaatttcaa gattcatcaa 120
gaagattcaa gattcaagaa taatcaagat caagattcaa gactcaaaga ttcaagaatc 180
aagagaagac ttaatcaaga taagtattaa aaagtttttc aaaacattga gtagcacaag 240
aagatttcac aaaattatta ccaaagagtt ttactctctg gtaattgatt acaagaatgt 300
agtaatcgat taccaatgtt tttaaaacgt taagattttc aaaattcaaa atgaagactc 360
acatctgttg atgtgtaatc gattacacct taatggtaat cgattaccag tgact 415

<210> 18224
<211> 263
<212> DNA
<213> Glycine max

<400> 18224

tctttctttt acctcatcgt ctctcacagt ctttatattt gggagccaat ccagtccttg 60
tgttcggact ctcagccact tatgatatcc gccgatgac ccattactgc ttaccctaag 120
ctctctgtcc tttcttcacg ccgcaccca tgccttgca actccttgga gtaccctcgc 180
gttggtgtca gtgaaacctc gtgcgatgaa aggcgtgatg ctttcgtctg atggcactgc 240
tctcatggga catccttcgc atg 263

<210> 18225
<211> 403
<212> DNA

<213> Glycine max

<400> 18225

ttataagcgc aggtctggga gacaaagggt tgtgttttcg atatgcgaag atgatgttcg 60
gagtactttg gatttggtac gaccatgccc tcttgatttc cggctgggaa attggcgagt 120
ggaagaacgc cccggcattt acgcaacatg cataatataa accctttacgg ttttaaaagc 180
tctatagttg ggcctaggct ttagagtttt tctttttgtt aaggctttgt gtcttttgtt 240
tttgaattta taatacaagg atctttcttc atctgttctt ggtctctacc cattctcatt 300
catttgcattg tttacttctc tttctgacac ggcagatccg atgacgagtc ccccgaggga 360
ctaataacctg cgaccgcct atcaccttca agcaagaaat gaa 403

<210> 18226

<211> 246

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18226

ttttgcttga aggtgtgtaa cccaccattt tccatagtaa aatactggta atgtgtctac 60
tatcattgtc atcatntttt cgtcaatgag gtgccacttg agctgccaag ttctccacct 120
ttgggcgtat tctttgaaag atccgggccc cttttttgca catgttttgt agttgcatcc 180
tatccaaagc cattatactg acgcagccta acaaaggcaa ccattagggtc cttcaagaat 240
ggactc 246

<210> 18227

<211> 414

<212> DNA

<213> Glycine max

<400> 18227

ttgatgatat ggtcttcacc gacgaaaggt tcattgtggg tctaaaaaga ggcaaatctg 60
atcatcatgc ttgataaat gccaaaaaaa aactagggca aatgaagagg gtgagaatga 120
gggagaagcc catgctgtga ctgccattcc tatacagcca agtttccac caaccaaca 180
atgtcattac tcagccaata aaaaaccttc tcttaccba cgcgccagtt atcaacaaag 240
gatatcccta aatcaaccac aaagtctgtc taccgcactt ccaatgacga acaccacctt 300

tagcacaaac caaaaacacc aaccaagaaa tgaattttgc agcgagaaag cctgtagaat 360
tcacccaat tccagtgtcc tatgctgact tgctccata tctacttgat aatt 414

<210> 18228
<211> 349
<212> DNA
<213> Glycine max

<400> 18228

ttgcttgtct tcttatataa caatagagaa ttctcgggtga cacattctaa aacacatttt 60
actgaactca ttattattga gtaaaattta ttacaaatta caaaatttta taattctata 120
agtataattt cctattcgag ctccacttat aatttacaat ttctgattaa ttttaattaa 180
aaaataaaaa gtgtgttaaa aaaaagttcg ttaaagagtg gcttactgat acttgtgtcc 240
tctcaacata ataagttgta acatggacat gtgacacctt gttatgggag tggtttctca 300
atatatggtc tctcatttta aatcagatct atgtttttcg tattcaact 349

<210> 18229
<211> 405
<212> DNA
<213> Glycine max

<400> 18229

tatgtatcca atcatttgca ttttgttttg tatttatacg ataatgattt tcatgtaccc 60
atctcttatt cctgtttgtt tctcttcttg cctttatttt tatagcgtta taattactat 120
ttatttgttt tattttattt ctatttcctt ctctttttct ctttttcttt ttctcaccac 180
aaacatacat tatctgtatt taggctattg tctcctgcat ttttattatt gtatccgatg 240
ctttccaatg cattcgggaa aacttatttt ggaatttaaa atgaaagggtg tcggatgtaa 300
aatacatttc acaatataac agaagggtgc ggatacaaaa tagtaagagt gataaaaata 360
aacttctgt atttatagag aataaggcct gttggaagac ttcct 405

<210> 18230
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18230

tttctngagg atagagactt cttaagctat ttatcttctc tcttagagag gcttactcaa 60
gcttgaggat agagacttcc caagctatctt atcttctctc tcagagaagc tctctaactt 120
tctagctttc ttactctaag aagtggattc actcttgtct tggatcgact cactctacgg 180
tggctcactc aagcttgagg atagagactt cccaaactat ttatctcana aatcctccca 240
actacttcaa aaatttcctt tgtactatta aaccactct aataatattt ttctaagcta 300
tggataacac tactcaatcg tcaactattt ctgtccctat c 341

<210> 18231

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18231

ntaggagaaa ccataaaaac taaggtagtt cctttacaaa aatcaattga ggaagcttcg 60
ccaagtatcc ctattgaaaa acctttattc aaacctttca aagttagtga gaaggctaaa 120
cgaaaattta gggaaacttag aaaaactaga tccttaattg aaggcgtagg tgataaccat 180
agtgaattac ttaacaagat tggtagttta cttaaggta ttccagatac tcctcaagcc 240
tcggaaaata cttccaaaat ggtaacaaga agtacctcca aattaattaa tgttattaat 300
gaagatagtg accaaaactc agataacaca actgagatag gatcagtggtc agaaaagaat 360
ataaatccaa ttaattccaa aactggata acacctcca agttatatta t 411

<210> 18232

<211> 355

<212> DNA

<213> Glycine max

<400> 18232

ttctttaaat atttcagatg aagtcattcg attattgtta cttcataagt agcagcttgg 60
aggagatata tatgtttgtc aaatgttggt gacaatgtag aaacattggt aggcattgaca 120
accggatcgg gttttgctta tcctatctca gtccccgatt cctcatttcc ttctctaccc 180
ctgtccccga aattcaatgg gagtgcata ttatgtgcat ccagtcctcc agtgagggtg 240
agtatttacc gtcccgctct gccccgaca tatttataaa attgtattaa aaaatcta 300

atttcataga atgaaaaata taattgtaaa taaaaatcac aatattgtac atgac 355

<210> 18233
<211> 419
<212> DNA
<213> Glycine max

<400> 18233

tgtacaggag ataatgacaa tttcgacttt atgtttgctt ggttgtccgt ttgtcttatt 60
ttattagaat taatatagaa attttgttat taacctcatc tattatttta ttagaatttt 120
ctttttttgt attattttat tagaattatt aattgtttta aaaaaacaaa gacattctaa 180
gatggttctt tgaaaaacca tcttagaaag tatacattct aaaataattt ttgaaaaaat 240
tatcttagaa ttcttaatat ttttaattga aaaaaaacg ttctagccat cttaaaaaat 300
atacctttta agaaggttct ttgaaaaagt gtcttagaat ccttaaattt tttgtttgt 360
ttaaaaaaag aacaaggatt ctaagacagt tttgcagaga actgtcttag agagtttat 419

<210> 18234
<211> 239
<212> DNA
<213> Glycine max

<400> 18234

tcttgatgtc ctggatcgtc ttcacaaatg gagtcctttg attcttgata atccctggct 60
acagatttgg taaggcagaa aggtgattgt aaacgccact ttctggagaa aatgagtcaa 120
caacaagctc accaccatat gaagccgtgg ataagagttt gaagtatgac aaaatgaccg 180
aatggagaga gagagggggg acgggggctc acagtataaa tccctttgat gacgacctg 239

<210> 18235
<211> 408
<212> DNA
<213> Glycine max

<400> 18235

ttattctttg tacagtgaat acactcttat tactctctcg aatatcccga gagaagagag 60
tgagagctta gatcctatat ccgtctatga gacaattaag aactagttag tgagccaacc 120
aagcaccaaa tcttctagtt tgttttagag ttaacaatgg cttggttaga caaagaatac 180

tacattgttc aagcttaatg ataaacttgg actgtaagag tcacaagtga cattaaaaaa 240
 tacttataac tttgaaaagt taatagaact tgtgggtttac caagaactgg acgtagtatc 300
 aatgacaaaag ataatcaat ataaaacttc atgtgtctaa tctttatttc attatgtgtg 360
 taattgacct taggtttaaa tatgatttct gttttggaaa agttttta 408

<210> 18236
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18236

atcttgccat ccagctcgcc caggcgagcc aggtttccta aaaagcccaa gtgcgcttgg 60
 tttctatttg cccccccat ttactaaata caccacttcc tttttttgct gattcttttt 120
 tcgtaacgtt atgaaacttt acgaattttg taacgatact tgttttcttt ccgtaatgtc 180
 acggaacctt atgtattatg tattcatccc tttttgggct tccggaaagt tacgaaacct 240
 cacgaattgt gcaacaatgc ttcttttga ctntccgcaa tgtacagaac ttcacggatt 300
 gtgcaacaat gcttcctttt gacctccggc atgtcacgga acttcat 347

<210> 18237
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18237

tcaatggagg aagagaatga gagagagaga aagattgtgt cgtgggaatg aaggaaagag 60
 agggagagaa gtttaacttt gaagtgtgtc tcacaggact ctaactcatc aaagttatca 120
 caagtattac acatgcttct atttatagcc taagcagctt ccttgagaag ctagtgttac 180
 acccttccaa tagctaagct caccctcatg ccaaaatata tcaaggaaga aagcttgcac 240
 gagaggcttc cttggggagg aagtgttaca cccctccaat agcaaagctc accccatggg 300
 aacacacacc cctccaatag ctaagctcac cgcccccaa aatacaaaaa aaaagaccct 360
 actacaaaga ctactcaaaa tgcctgaaa tacaaggcta aaaccctata ctacta 416

<210> 18238

<211> 331
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18238

atcttgttgt gacccttaat gggccttccc agttgggacc aagcgttggg gaatcttttc 60
 tagcttcgcc tcaaactcac agtacgaggt cactgggttg aaaggctcgt ggttgaacct 120
 ttgtattata tctctttatc actcagagct tcgtagttta ttctctgac ctaggcatct 180
 cttagacttc atctattgtc ttgagttcta cctttatgtt ttcttcattn tgttgttgtt 240
 ggaacaatag tctccttgtc cacagttccc ctacttcgat ggngatcatg gcatttgtgc 300
 catatgtgaa tcaataagga ttttcattaa c 331

<210> 18239
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18239

ttttgaaatt tcaaaaatat ggtatttact ctctttgttt taattaccag aggatgtaat 60
 cgattaccag tggccaaagt agtttctgaa atgttcttaa aattttgaat ttgattttta 120
 aagcctataa tcgattacac aagacttgta atcgattacc agaagttcta aacattttat 180
 aaaagtcttt agaaatttga atttaaattt caaagcctgt aatcgattac agcttgtgtg 240
 taatcgatta ccataactta aaattcaaatt ttcaagtctt tagagtcaca actctttaga 300
 aaaataactg tgtaatcgat tacaccattt tggtaatcga ttactagtaa ggaattttca 360
 aaaataactc ccaacaatca catctattca aatgtntttg aatggccatc aa 412

<210> 18240
 <211> 328
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18240

tttcttgtat gcttaaagtc tcacgattgt cacgtgctca tgcaacaatt gttagccgtg 60
 gctatacgag acatcttgcc aaacaaagtc aggttagcca taactcgcct atgctttttc 120

<211> 412
 <212> DNA
 <213> Glycine max

<400> 18243

ttgataaatac ttcggtagta accagtcaat ctattataac cctttaacta ttagacattg 60
 gtaggcttcg gccaatctaa caccgcttgc accttcccag catccaatgc tactccagct 120
 ccagagactt tatgaccaag gtattccacc tcaagtaatc caaatgaaca cttagagagt 180
 tgagaaaata aaacatacta ttgtagtgtc tgtaagacat actccaaatg acacaaatga 240
 gtagactagg aagggtctata gaccagtata tcatcggaaa aaaacaagca caaattttcc 300
 taactcattt tgaaaaataa tgttcatcaa acattgaaag gtagttggtg catttgtgag 360
 tccaaatggc ataacaagcc attcataatg gccatgatga gtcctaaaag ca 412

<210> 18244
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 18244

ttcttgtcct tttgggcttt cactaagggt ggaaatgagt gagccaaact tgaattgagt 60
 tgaacacata aggcttgagt ttgactaatt atctctaata ggcttaactt tgtcatacat 120
 aaaagtctag cttggcgagt ctaattaaaa gcttgcttaa agacgtcttt gatcaattaa 180
 ttatttttaa atctagttaa atactaacta aaaaaaagaa acttataaaa tttaatatga 240
 gtaatgtaca aatccaaaaa taattgataa acaaaatcat attgaattca agtagttaaa 300
 atacaaagaa tatataaaaa atgaaaaaaa gagag 335

<210> 18245
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18245

tggccgatgg tccgcaacga attgatcaaa gaatttggca aatggctcgca tgactacttc 60
 atcttcttcg gtggaacaca aagattcgaa caattaagga tgctgctaca tgttgatggg 120
 ttctccaag tatgttgcatt ttgctaattt tttttaaaaa aaacaaagtt ttaaaataat 180

tacatgtgta tgtttctttg attcaggtta gtgtggacaa gtggatggat ataatggaca 240
 taggatatgt cattgtatct aggtataacg taatcgttat cccgacaaca aagcatgaca 300
 ttttttcttc tgagaagtca accaccacca aattatttta ttcaccgcat gatatgtgtc 360
 ggtcacatgt ttggaaatca ttttgttcag gtacattgaa tataattatt 410

<210> 18246
 <211> 343
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18246

tttcttctga gagtgcctta ttgtgtgctt tttttttggg taagaatact ttgggcttac 60
 aagcttctga ggggtgccta ttgtgtgctg tttttttttt tagacaaatt cccttatcaa 120
 tcccccaaat taaggactta tcataacttg aaacccttat gctttcttag aaccctaaaa 180
 caaggtcaag gatatcaaaa ttaagctcag gggttttatc aaacaaatca ttattacttt 240
 tggctcaaca ggggtgcaag ggataaattc atcacagggt agcttnttgg ctgagtggct 300
 aaaataaaaa gaaacatggc cttgatcata tccaccttat gta 343

<210> 18247
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 18247

tgccaccag ctgcctagg cgagctcatt tcgttcatgc gagctagggt gcttctcca 60
 gaagcaaccg ctttctggag gaatatcctg gaaggcccaa gtgggcctgg ttgctatttg 120
 caccctcatt tttactaaat acacccttg ctcttttttt ggtgtttttt tcgtaacgtt 180
 acgaaacttt acgaatttcg taacgatgct tgttttcttt cagtgatgtt acaaaatctt 240
 acggattaca taaccatccc cttttttttc ttccggaacg ttacagaact ttacggattg 300
 cgcactaaca cttcttttta atttccggca tgtcacagaa cttcacagat tgtgctacaa 360
 tgctttcttt tgactttcgg catgtcacgg aacatcacga atagcctaac g 411

<210> 18248
 <211> 334

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18248

tttctttaac ataaagagca tacttatttt tacaacgaac aaaccattg tcttggaagt 60
 acttgatcaat gcgactattc catgccctcg gtgcttgctt tagaccatac aacgccttgt 120
 tcaatttcaa gatatttctt tcttgacctt tgatgagaaa acccattggt tgttcaacat 180
 aaacattttc ttcaagatag ccatttagca atgccgattn tacatcaagc tgaaaaactc 240
 tccacttcat ttgagctgcc aaggaaataa aaagacgaat tgtctccatg cagacaaccg 300
 gtgcaaacac ttcatacataa tcaactccat attg 334

<210> 18249
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18249

taaattgcct cttggatcaa tggttcatat tgttatccat gtttctcagt taaagaagtt 60
 taatggtact gctactgctg ggaacttttag tccttcacct ttattggata cttctcagaa 120
 ggaacctgca gctatcattg acagaatgac agtcaagaga gaaaatcgtg ctgtaaccaa 180
 agtttttggtt caatggaaac atcaactacc tgaagatgca acttggggaat tcttttatga 240
 cttgaatcag aagtttcttc actttaatcc ttgaggacaa ggattctttt ggggtgggagg 300
 aattgatata ggcttangaa ggtagttagt tagttagact cgattctggt aacttctggt 360
 agttggaaag tagttaggca gttagtgggt agaagctata agtagcaat 409

<210> 18250
 <211> 116
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18250

actctcagta caatctgctc tgatgccgca tagttaagcc agccccgaca cccgccaaca 60
 cccgctgacg cgaaccctt gcnggcgcat ngaatataac ttcccataat gtatgc 116

<210> 18251
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 18251

tttttttttt cttcacaata aggccaactt atttacctcc gttcgttaac gaaatgaaaa 60
 tgacaaagta atcataatth cataatacat ggatagcaac gtaagcaaaa acatgataga 120
 gtggcaatca tagaaagcac ctcacaacaa tgtaatatat ttattgacac ataactgtca 180
 ataatagtag aaacttgtht acaatattta aacaattgta tcgaaaacaa cacattcatt 240
 cttcctatgt catgtgtaac tatctacacc ggatgttctt aactttttaga aaatatgcta 300
 ctcatttctt gtgaattgtg tcatggtctc caagtataac ggcgggccat caa 353

<210> 18252
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18252

tactgttgac aaaaatctta ttgatgttgg ttatttaatg gttttacttg cagtataag 60
 gccttaactt tttacttata tgcacatttt ctaattattt ttgtttaaac caataagggtt 120
 tttacaaaag gagtggatgc ggatactgtg gttttgatgg cagctcaagc ttcaagactt 180
 gagaatcaag atgcaataga cactgccata gttggaatgt tggctgatcc aaaagagggtt 240
 agtcattgat atattattca ccgcgattct tttgatgaca tatttattag ctgcaagcct 300
 ctaactgtaa tctgcagatc atcataattg ttactgtatt ttagtttgcg ttttaatttt 360
 cttgtctaac ttactgctac aaaggctcgt cttggtatcc aagaagtaca 410

<210> 18253
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18253

tgcatgctat cttangaacc caaacttgta gtttcaacgc aaggaaacat gcttatggct 60
 aggaatccaa aatttggttt tagaattaga aaagcatgaa aattaagact tgcttgtag 120

agtttttgct cgaatttggg ctgccccatg tttgatactt tgcatagagg tagcgtggaa 180
 aacaccttgc aatagtgtgt atacataggt aaatataagg ggcatagaaat tctttgcaaa 240
 ggggtgaagga gtattgaggt cgctttctaa atgaatgtat gatagcacgg gattcccttt 300
 tgaatgcaag tatgtacata atgtaaatag cttgccaata tgcataagtg tgagtgaaac 360

<210> 18254
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 18254

tctggtggga catcttgact tgctttccaa tctgacattc accacagatt ctgccttctt 60
 ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggata 180
 gacatgtgga ggagtagctg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
 tgctgccctt cattagaact tcaactcttct catttgtcac caagcattct gactttgtga 300
 agtttacatt gaatccttca tcacacaact gactgatgct gatcagggtt gcagtcagtc 360
 ccttcaccag cagtactttg ttcagactaa gaagtccatc atgaact 407

<210> 18255
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 18255

ttcttcagaa aactatagag gataatgcca cggcgaccgc ctccaatata gctaggggaag 60
 cggaactggt gctacatccc gcaataaact taggccaaga tagaaacacg atggtgttcg 120
 gccggaggtg tagtctcaa gcttaccctt atggcttgcc tccagacttc actccctgta 180
 ccgctccgga caatttgaac caagccccta ccttcgaggg gcaactccct ccttatgccg 240
 attatcccct gcaagaagac gatgaagaag atgccgtct aggccctcta cttcccctca 300
 aggatccggc ccccatg 318

<210> 18256
 <211> 420

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18256

ntgatgacct gaaactcact caaagaggat ctctttcagt ttgaagtaag ataactgtcc 60
 cacaagcaaa atatgagcaa acataaggat cattgcttgc tgctatgaga caaaaagatt 120
 atgaaagcag gcttgattgt ggcaacttaa gatcgcccaa accacaaaga taaaactagc 180
 aagaacaaca tcttttagctt gcaggtgaac aactaatttg ccaacaacca ggataagatc 240
 cataggagaa gcaagattaa aaccatgacc agttaagtta tagatgataa ccaagaccaa 300
 atctaattct caaccaact tcttctaaaa gagagcatatc tttgtgcaaa gcaagaatgg 360
 tcaaaattct ttgtaacatt tcttagaaat ggaaagacat taaaaaata tatgaaaaat 420

<210> 18257
 <211> 321
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18257

ttcttttcat ggaggtgagc ttagttttta gatgggtgtg tgtagctaag ttctagcttc 60
 tcaaagaagt tttctcaaag aagctttctca aggaagtttt cttaagaaag cttctcaagg 120
 aagctaccta gtctataaat agaagcatgt gtaacacttg ttgtaacttt gatgaatgag 180
 agtcttgtga gacacaactc aaagttcaac ttctctcct tttcttctc tcaatttctg 240
 gctccccct cctctntct ctcctcttt ctttctctcc atttgagcat cctctccaaa 300
 cttcttatcc aaggctcatc t 321

<210> 18258
 <211> 417
 <212> DNA
 <213> Glycine max
 <400> 18258

tatggtgaat accaatgttt ttgtagcatc atatctggta ggctcatctt acgtgattct 60
 gccttggctt tatctacaca gaattcactc aagtcagaga aacagaaagc tgatgacttt 120
 gaaagaaaat acaacgaagc ccaagtttgt agcgaagaaa gaggtaaaaa actggaagac 180

acggagaaga agacacgtca gcttcaagaa tcaactgacta ggtaatatataa ataatgaaaa 240
 gtatgccctg atgtaattgt tttcccgatga taatcaatga tgtcttgcaa gggagagcct 300
 tgtcacaatg ttaaggttgt tacttgtaac cctgagggtta ccagtacaaa tcttggaaac 360
 agtctctctg cttatggagt tacagctgca tacatttact actccagacc ctacttg 417

<210> 18259
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18259

ttcttgtgtt acgtcggttag aacaaaccct cagctgccat caacagaaaa catacttagc 60
 cgatgtcagc ataaaaataa caatgactaa cgtaaacga aaacctagcc tatttgaaca 120
 aaaaaatatt cataaatga ctctggcaaa taccctagct tgatgtcgac caataaacct 180
 atcatatgtc aaccataaaa tggcattggc atcgacaaa aatagccttg accattgtcg 240
 accgaagaac atcatcaact gataaggtct atcctatttt aatgtgtact tgtttactca 300
 taatgggttct tgttgcgag tccaaccatt ntgaatgatg tga 343

<210> 18260
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18260

tcttgcttag ccgctcttgg tgctcagaaa attttaattt tttatccctc ttattactag 60
 ctatttgtaa ttcttttagtt cctgaatgta caacattcaa attgttgctc gttccccctc 120
 ttcttttctg caaaaaagaa aatcaatatt aaagaaaaca tggatgaagt cctaagaaaa 180
 tcaatatcaa agaaaacatg gatgaaatca caattaaaaa gcacaactac caatctttca 240
 gagtcccttg gttaatttgt cttgtctcct tatgtgggtg ggttctgttt aataatatta 300
 tacttttgcc ttccaaaaaa aacttatgac tgatcctctt ttcattaatc ctattntgta 360
 tgttattgta taaaagatca tgggttctcc acctacctcc actcct 406

<210> 18261
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 18261

agctttgttg attctgccta taagggtggtt aagcacttgt tgttggttcg cttctgtctt 60
 gagtggttaa gcatcatgtt tggcttatgc tctggatggt taagctttgt tgcttctacc 120
 tatatgatgg ttaagtactt gttgttggct tgcttctatc ttgagtgggt aagcatcatg 180
 cgtagcttct gctcttgatg attaagtttg gtttgcttct accttttagg tggttaagtg 240
 gttaagcatt gtgttggtgc ttctgcttaa tggttaagca tattccaatt gtctttgaat 300
 gttttcagtc attgtcaatc tgttgcccag gggagtg 337

<210> 18262
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18262

ctctctccc tctccctctc cctttatgta tgttttgctt tctctctctc tcttcttctt 60
 ctccgccatt gtatttatct aattacttaa atttgttttt ttaagttggt ttttaataat 120
 taattaattc aataaaaaat taatttatta tttttgttta atcaatttaa ttatatttga 180
 tatttgaaat agttatttgt aaaatattta aatatcattg attccaaatt tgtataagta 240
 tatattgtac atattagttt gacaagaaaa tttatagttg taaatgacaa aaaaaattta 300
 ttgatatagt gatataaata tttttatact aatagtaata aatatttata taaatagtat 360
 tttaaagtgt aaaaaatact cattttattgg aaattaaaaa atttgtagta aga 413

<210> 18263
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18263

ttgttgcatc cttgcatcaa tcatcagcaa acttagaata acaatatgat ataaatagta 60
 taaatagcaa catacttttg gaggcaccaa taattgtgtc ctcaatttag ctactttttt 120

ctttgaactg cctgggatga tactctgcaa gtacccatatt caaattcaaa tgcattaaat 180
 tatcaaagac atagaagata aaccccanac caaaattaga ccataatgca aagtgagaga 240
 aaacaacatg ggaaaaatca ctttttgaga gcaaaaaatc agattcggaa aaaatattga 300
 cagagagagc ataaacttct gtatccaata taaaaaa 337

<210> 18264
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18264

tttgctcatg agccaaagat aggttttagct tctctttgta ctacctatt atagctagca 60
 tgctttactc cgtggcttct aagtgtctggg ccaaactcct cttggatctt gagcaagcag 120
 ctaactcttc ttttaagacc atgctatgta cttgtgattg gtctctctct tccctttgaa 180
 gcttgagctc attgttgctg ccccaaaag ctccatggaa tttgtctcgg ctatgtctct 240
 ccttgcgagc cctcttggtt tctcgttcaa gggctcttgt ggtagctgca tttcttctc 300
 gtaactcggc acactctntc cagacgtttg tagtgactaa ctagaatttt tctttggcaa 360
 gtcttgctat tctagttct ggttttagag ctgggacttc ttcac 405

<210> 18265
 <211> 299
 <212> DNA
 <213> Glycine max
 <400> 18265

attttcacca tcaccatagc cagccaacac tcccctcaac attcaatacc tccgatctgc 60
 actttctact cctaataaaa tccatcttgc tgagttaccc ttcaactcta cccaacacgg 120
 ttggccatcc aacatagaga acaccgagaa gctcccttcc actcacatag ccaaactctt 180
 tctttcaaca ctcagccttg aagctcctct ttgctccttg atatcacaga tcacagaaca 240
 agagggtcac cctccacttt gcgttatatc tgacgtgttc cttggctggg ttaacaaca 299

<210> 18266
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18266

tgtagtgcag ctccagattt cataattggt tcattatcag gatgatagtc acagcctgct 60
tcaaggattt gcttaccaga tgacagtaaa gttggaactt tgtcatgacg aacctgcttc 120
tgattctctt ttaactcaaa atcattagca taaggaagat tagtatgtcc attaaaataa 180
ccattgttta ttgcggaagc gtcaagaagt gggtaaaga actgaaaaat aaaaccagct 240
gccaaacttg aacggtaagt ggtttttgag gtatcatctt taggtacaat agtggctgta 300
accaagatga cagcatcgta tagaatgcta gcacttaaaa gctttccagc taaaaactcc 360
tcaacattnt ttgctctgat tgcattgctta ctcccataag caccaaaaga caacc 415

<210> 18267
<211> 295
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18267

ttcttcaaaa agctgtgaaa agatgtaatt gaatatttga attgacgaag aaatcgagtt 60
ttgaatatct aataagaaga cttaaaaatg actagatctt ggcgttgtaa aagaattagc 120
tgcaagtcgt tttaaggagg aaatattaat ataaaagcaa gacttgctgt cataaaaaag 180
ttgtacgtaa tgggaacgca taaatttgaa agcaagactt gttgacatat gtngcatgag 240
tcctctgtga ttcattccgt cttccaaaat tccatcaatc tggttttcat attat 295

<210> 18268
<211> 414
<212> DNA
<213> Glycine max

<400> 18268

tttgcaagta ttttacccaa gaaaacagga aagttttata aaaggaaaac agaaatataa 60
tagagatgaa gtccaacaat acatacatcc aatgcgctca gcttcaacca tacgaagatc 120
taaaggaatt tcttgaaact gtgcagcaat ttgatgatct ccaagagata aattgtgtga 180
aacatatgct tttatgggtc ctgctccctt tgtgaatcct gtgtcaacgg tcaaatggat 240
aggattgggt acttctcgag aataaaattc atggattaat gcactaccac cagttactcc 300

DRAFT

```
<223>      unsure at all n locations
<400>      18269
```

<210>	18270
<211>	399
<212>	DNA
<213>	Glycine max

tcaggctgct	cgattgctcc	aggttgctgt	at tttaggca	aaggctctgta	tggtgggtcag	60
cagaggagca	caaaccacaa	acccttgtgt	cgcaacctac	ccttcggcgg	gagggcgacg	120
cgagactcgc	gggatgctg	ttccacgaaa	ggaatacacg	cggagtcgcc	accaacgttt	180
at ttgaggaa	aacgtcggaa	aaaccggaaa	agacgcgatc	tacgaacttt	taagtgaaag	240
gttcggggagt	tgtattttacg	cacggggaag	gtattagcac	cccacacgtc	cgtcccaagg	300
gacggcagcc	tttaatcgaa	tgtgcaaaca	tgactttgat	tttttatggt	ccctttntat	360
gtccttatat	cctttatacc	ctttttatan	ttntctctt			399

<400> 18271

7651

<210> 18274
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 18274

tttgtgtgaa aggatgtgac tcttctcatt tgattttgaa tttcaacggt caaaggcact 60
 ggtaatcgat taccaaaaca ttgtaatcga ttacagcttt ttgaaattaa ttggaacggt 120
 gtaaattcaa cttgaaaact ttttcaaact cattttgcta ctggtaatcg attacaacaa 180
 tctggtaatt gattacgaga gagtaaaaac tctttggtta acatgttttg agaaaaatcc 240
 atgtgctact caatttttga gaaaaacctt ttcataactta tcttgattaa gccttctctt 300
 gattcttgaa tcttgatctt gattcttgag atcttgaacc ttgaatcttg attcttgact 360
 ctaaactttc ttcttgagtc ttgaattctt cttgattctt atcttg 406

<210> 18275
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 18275

ttttctttga atgggcta atgaggatagct gatgccagct ccattggagc ttgtaggcct 60
 aagatcttct tcatcaatgg attcctttgc ttcttggaag atgaatggca gcggaatgga 120
 gaaagggaga gagagaggag acgccacttc aaggagaaga tgagtctaga agaagctcac 180
 caccatatga ggccatggat aagagcttgg aggaagaagg agatgaatga acggagaggg 240
 agagaagagc acgacatttt gtgctccaat gaactttgaa tctgaagtta atatcaaatg 300
 atccaagtca aaaaatgcc cctgac 327

<210> 18276
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 18276

tttttttagta gtgaacaaaa ttatattcct ctattaaatt tgacttcaga aggtgcatga 60
 aaaatcccaa aaaaatcttt ccaatcaaga gatttacctc ttgcatttgt cgaagcaatg 120
 gtagcttcca taaccataa aaaaggattc atcataaaat gttttcataa acgacaaaaa 180

aaatataaac gtatcctgat ttttcactcc ctactagct ttggctttca ctactctttc 240
 acaaaccctt aaagattaat aagctctgat atcattttga aaaaaacatt aaacaaaaca 300
 taaaatggag ttttaagatca aatcataaaa tgctaccaaa cacctgcaat aacttatata 360
 agggatgttt gttacgaacg ctactctatt gctatactac tactaag 407

<210> 18277
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18277

ttcttggaat ccaaacatgc agtaaatac aatgaggaag ttttcaaac acatcacctg 60
 atattacaat atacaagcaa aactaacaag gatttgcaaa taataataat aataataata 120
 gtaaattaat gaatgaatga atgaataaat gaacgtactt gtgcattgta gcacatgcat 180
 gatacaagat ccataattta attatttgaa ttgaccataa acttgtctag aaaatcagaa 240
 aaaatggaaa aagaaaaggc caagatccat aataaaaatc aagatagaag agaagaggac 300
 ccttacgcta atctgaagaa gaagaaagan aatgaattg aat 343

<210> 18278
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18278

tcaacatcag accacgacca ggggtgctgga actatttcac atggacttga tggggcctat 60
 gcaagttgaa agccttggag gaaagaggta tgcttatgtt gttgtggatg atttctccag 120
 atttacctgg gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaaggagtt 180
 gagtctaagg ctccaagag aaaaagactg tgtcatcaag agaatcagga gtgaccatgg 240
 cagagagttt gaaaacagca aatttactga atactgcaca tctgaaggca tcaactcatga 300
 gttctctgca gccattacac cacaacagaa tggcatagtt gaaaggaaaa acaggacttt 360
 gcaagaggct gctaggggtca tgcttcatgc caaagaactt ccctataatc 410

<210> 18279

<211> 381
 <212> DNA
 <213> Glycine max

<400> 18279

agcttggctt gtgtagaatt agggtagaca acttttataa taccagggc gcagaattcc 60
 acagagacca caatgcctat ttcggaaaa aaaactctgg aggaagcaag aggagcagct 120
 tttgcaagga tacctaagtt ttgtaatctc atttttatta ttattaaagg tttttctgta 180
 atggcttgct aaacaccctt gttggggatt tctaataaac agctgatgta attattttaa 240
 tatctattga ttgtgtttct tgtgttcaat gcttctttca gtgcttaaatt ttcgatgct 300
 cttggtctag taccattt gtgtgcatag ttaggtgact ttagcattgg gaaatgtatt 360
 gttgccttag aacttgaatg a 381

<210> 18280
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 18280

tgacactata aatctcagct tccatagag ctgtcctttg aacaccaga tgacctcccg 60
 gtgtggaaga atgatagaac tgcaggactg agtctgtctc atgatctgga atgcatcgct 120
 taatgacttg atcactgcac aatttcaca agtaggggtc atcccaaata aaatgcttag 180
 catcactttt aattttatct ttttggcct tagatgctaa gggaggaaaa acagaagcaa 240
 ctaaataatt gacaatgtta gcaaaccagg gagtagaaaa agaatacaga atactataca 300
 gtatatacaa atgatcatcc gagaaatcat cccgaatggg tgaattctca tcagacacat 360
 gttcgatccg actcaaatga tcaacaacta aaatttgtgc tccgtccta tcaccgatct 420
 ccaagtcaaa ctcttgg 437

<210> 18281
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 18281

attttggtca tagttttgtc aaagcctact aatcattgga taacaaaagt tgtaatagtt 60

actaaggagg ataagttatt taatgaacta atcagtcgct atgctcatag ggggaaccatt 120
 gatcctaagt atgatgtaaa ggatagacta atatttataa aagggaaatt gatgattctt 180
 gaaaattcat ttttgagaaa ccagatttta caagaatttc atgacactaa attgtggggc 240
 catgctggaa agactaaaac cattgctaga atttgcagtc aattttattg gcctaaaatg 300
 caagaagata ttaagtgcta tatcagatgt tgcagtatct gtcacaggct aatgtggatc 360
 aagcagtacc t 371

<210> 18282
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 18282

ttatacagat gaccacttgc gtattttcgc ctgcccttta acttcacggg ttattattga 60
 cagagattga tgggtgcgcg tatatgacgt atatctctgc acgtcacctg agttcagagt 120
 cagtgtgaca caaattgcgg ggcggccgac aaaagtgagt ctcttgctcc tacgtatcct 180
 caatttgtga tgaggaaactt aaacttacgg tattcttgat actgtgagac taaatagtct 240
 cggtgttttt tcaactacaat gcgaacatgc attagtaaag aaacaaaact tccaactgat 300
 caaagcaaca tatgcttttt tctatgaaga caatgtgtct attgcggaag gagagtgtac 360
 tgataataat ttcacataac catatatgag attttgatga t 401

<210> 18283
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 18283

tcatttaata gactagatta ttatcctaaa ctagaataga gtttttctaa taagccaata 60
 ataaaactaa gtgaaagcaa tgttgcaggt gaatgcagac cttgacatgg aactaaatcc 120
 ccaagcacia ccatggccat atcaagcgaa gagccttaat agaatgtttg gaaatggtaa 180
 tcctcacaac atttgcaaat tgcaaggaca catatcacta acagttccct cttcccatgc 240
 taaatttaat taagagcatg ttgttccagt ttttcttatt ttcacctct agtgtgctca 300
 acataggaga ttatgtgact gctgacagaa gggtagtagt actagatcat gtatctatca 360

t

361

<210> 18284
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 18284

gatgaaacgg tggccttctc atggactctt tcgaatgaaa atagcagcat ttcttgact 60
 gaagttgtgg gagtaggaag ccatcttctc aatcaaattc ctaacctcag tatgggtcat 120
 atcaccaaga gctccaccac tggcagcatc aatcatactc ctctccatgt tgctaaggcc 180
 ctcatagaaa tactatataa ggagttgctc agaaatctag tggtgaggac agctcgcaca 240
 caatttcttg aatctttccc agtactcata caagctctct ccactaagtt gcctaagtc 300
 tgaaatgtct tttctgatgg cagtggctct agatgcaagg aagaatatct ccaagaacac 360
 ccttttaagg tcatcccagc tgagaatgga tc 392

<210> 18285
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18285

agtgnnttcg cattttttcg cgtgtatgat atccactccg caaggtttga agttgaagag 60
 accttccatc ctattacgca acggggggga caaaagtggg ctgttaactt gaatgggtcat 120
 tattgtcaat gcggaaggta ttctgcgctt cactatccat gttcacacat tattgcaact 180
 cgtgggttacg tgagcatgaa ctactaccaa tatatagatg ttgtttacac aaacgaacac 240
 atcttaaaag cttactccgc acaatgggtg cctcttgga atgaagcggc ctattctct 300
 tctaattgacg catggacact tattcctgac ccaactacaa ttcatgc 347

<210> 18286
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 18286

atcatcttac ttatacccca tgtcctgtca acaggatgtg tcttatcatt aaaaccaata 60

acaacctgtc aaataactac ataaggtata catattcttc gattattagc gaaaataatt 120
acagaaaaca acttcttgat tgatcatttc tgaaagccca aaatgttcac gtgataaaat 180
gttacctgct ctcattcata ccaatgagaa aatgttttgc taaaaacgat tattgatact 240
ttaatttgcg gtatctatac ctgagcctaa tattgatatt tcagagatac atatatgtga 300
agtgtcc 307

<210> 18287
<211> 358
<212> DNA
<213> Glycine max

<400> 18287

gcaatctttg gtggttttgt attccaaagc ttgtatgcat ctccagccat tggtaggatt 60
gtgtgggtcat acataccatc aagttcatat accctgatgc tcatcatacc aggccataca 120
gtatctccat ctcgagttac tgtatctgga ttaatatcaa gaatggatgt atttgaagtc 180
tgcaatgctg tacattcccg caacacagtc aattcaacca tattcttctt tttattataa 240
gaaaacccca tccttagcaa cagcaagtaa ctcatcataa tacatgagca gaaagaattc 300
caaatgaat atattgtatg agtaaaccta ttttatacct tgacagacac cacagacc 358

<210> 18288
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18288

tactcacgct tgttgtatta gtatcttcaa caactgattt caaacttgct taatttagtt 60
tgtgaagaag attatttaat tttttggttc atattttatt ttcttaaaag tgttgacgga 120
gaagtntatt caataagacc tatatgaaag tgagatgaac ccaacatttt caataggtga 180
aatgaactt atgcaattca ggttctatat tacgctgcaa aagaagttct aacaacaaaa 240
caatgaccat gaacaattca aaaatcaaga tttgtgactt gtgaggaact cacgaggtgg 300
aataaacttc ttgctgagta gcagaatctg gaaacgctgc gtcgaaggta aagtggcgtc 360
cgcgaagcct attgagtcta atgtaatcgt tttcattagc aaactccgtg agataaacgt 420

cacggcga

428

<210> 18289
<211> 409
<212> DNA
<213> Glycine max

<400> 18289

gctcctccca ggatcctcta agtcgccttt tgctgctat cttgacaatg gcctgctaga 60
ttttgagcct ctggtgcaga atgcctctga cgacttttaa gtctttatct gtaagacccc 120
tgtggacgac tgaagaggag caacctttgc caagatacct aggttccgaa atctcaggtt 180
tcataaaaag aaggcgtagt tatagttggg gaactgaatc tccctggtga tttttatata 240
ttgaatatgg aaaatggatt ttctcaagga tcagggtccca tcattctatg cagacccttt 300
atgaaaactg ctagaactaa gatagatgtt tatgcacgca cactgtccat ggagtttggg 360
gatataactg gtcattataa tattctggat gctatgacat acccatctg 409

<210> 18290
<211> 354
<212> DNA
<213> Glycine max

<400> 18290

gatcttcctt tcgggccttc ttggtttctc attccaaggc ttcacggtg gccatatcga 60
cgtgccttag ttcatacatc tctcttcaaa ctttgatggc tatggacttg aacttctctt 120
tgactaccg ggctctttca agctttgcct ttaaggctag tacctcatca ctttcttccg 180
aagctttaac ctcatgtct ctcacagtat ttagaattgg gagccaatcc aatccttgtg 240
tccggactct cagccactta tgatagccgc cgatgatccc attactgcat cccctaagct 300
ctctgttatt tcttcacacc gcatcaaatg ccttgcaaac tccatggagt acct 354

<210> 18291
<211> 363
<212> DNA
<213> Glycine max

<400> 18291

ccctatTTTT ctattaatag ggggggaagt tgaaggaaaa aactgtcaac ccttccggtt 60

attcgagatc aattgaaatt agtggaaaaa attggttccg tgaagaaaat ccaagccgag 120
 gcggttccgt aacggttctg ttacgtttcc gtgggtgatt tcgcgaagat tttcaaccgt 180
 tctttcacgt tggtcgacg gtctttgtca ttcttcggtc ttcaaccgtt aagttctcga 240
 aatcgaactt ttcaattcat tctatgtaca cttagtggtc ctcatattgtt ttcacgggct 300
 tttattttca ttcatttact ttctgtaccc ccttttgacg tgcctttgtc atttacttaa 360
 gtc 363

<210> 18292
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18292

tgggcccattg ataaataana gtatgtgata gacatgcaaa ttaagataac gtgagagagt 60
 tgactgttag caaatcacac gtgatggttg tgtaacttat gtgtgaactt gtgcaagaat 120
 tttgtttgga tattttggaa tggattgttg gacctttatg tcatatttgt ttgctagtct 180
 atgcggggaga atagagactc acctatacac ccaacatttt tcagataaac ttatagatgt 240
 agttcgttta tcaaagaaga aatggatttc actacatcaa tcactaccag tgtagatgga 300
 cttgttcgtg aaagaaagac ctttcaagga taccgttaga cattggatga cccaaccatc 360
 tcttagagtt ttgatgagga caaagatata aatatgt 397

<210> 18293
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18293

agtcaccttg ttgctgcatt ctttctagct tttcattggt gtattatgat ctctttttgg 60
 tgctctaaat tgtgggaatg tgctcaaata tgtggggcaa ttttggtttg ttttcttgct 120
 tgattaggtt gaattggggg tttgtatggg atggccctaa gcctataatg cattttgaag 180
 caatggggca tgccacattg tccccgttct cttgctattg atgcctaaac gcgcgcccac 240
 caagtgtttg gtgaaatgcc tcaatggcat tagcgcgtga cttttgtaaa gaaacaaccc 300
 atggggcatt tcggtttgac atattttcta ttttttggga catgcattca ttcccaaagg 360

gctagataat ttccacata tttct

385

<210> 18294
<211> 405
<212> DNA
<213> Glycine max

<400> 18294

tctagccaaa tggacttacc ttgttttaat tcctttgata gcccttttga gccttgtttc 60
cctttccttg ttttgaagct cactacaagc ctttaagtga aaaccatgat attaccatat 120
ccttaaggaa ttttggagct ttggaattgt ttgggaata agtgtggggg gtttttgttt 180
cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
acattgtata ttggttaa at gttggacatg ctgaatgaaa tgttgtttct caaaggctaa 300
agagtaaaaa aaaaaaaaaa ctaaaaaaaaa aaaaaatcta taaaagaaaa agaaaagcaa 360
taaagttgag tgaataagat cttaaatggc acaagaatga tgaaa 405

<210> 18295
<211> 229
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18295

ttatctattc gatcttagcg agagtgattc tcctacacgc ttgagcgaga caagaacacc 60
ctggctgtat caaaagacta tcacaacctt tgtgtgtggc cctagcagga aagagagagt 120
gggtccgttc tttcatctta ccctagttat ttgaaaccac aattccagaa aagccagctc 180
tgcccaaaat tatctggagg acataactcc ngctctacgc actcaaatt 229

<210> 18296
<211> 353
<212> DNA
<213> Glycine max

<400> 18296

tctatatatg ctgaacgcat ttcataata cagcacttgt ttgagtatat attcgagaca 60
attataagcg ggatctcttt ctatcttaga tgagaagtga ttctctctga gattcttgag 120

<210> 18299
 <211> 473
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18299

ggcgatgacc ctggatgcct cgtcgannnc atgagtcctat acganaactt tcgangtaga 60
 naagctcccc cgcgttgata tgctgagttc tcctgaaggt atggctttct tgaacggcgg 120
 ctatgcaaca tacatcggtta ttacgttttag atgattactg gtgatcccca aagaaccctg 180
 gtatcggaata ctcatgtctt gtgttaagca agtcgattcc tacgctacag cttctatttt 240
 ggcctttttt gacctatgtc gttgggtcatt acacttataa gtatctcctt gcctaccctg 300
 ccaacgcctc ttccgccaag tagacacacc catcctactg agcgcaccct gcacgatgct 360
 ctggataaca ttgatgcaaa cgaccataca ttgtattaga tcaattaatg agacaacatc 420
 catgctctac attggtataa taacatggtc gcatgagaaa ctagccact acg 473

<210> 18300
 <211> 349
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18300

tatctttaca gcagattnta gtaatgaccc actaacctag aattaaata acttaatgcc 60
 attaacctag ggaattaaaa aaaacttaat ggctgagtgt aactgaaatt gtggcaacca 120
 aaagtcaccc ccaacagcca acaagtcagc caccatttgg tctcccaaaa ggctgatgcc 180
 tatgttgcca attgggccct tattacaact tgaactaaac ctaactaaag cccttttaat 240
 tgattaaccc aaaacatatt tttggtcagc caactttaca aggattgggc cattatttag 300
 acaaactaaa cactctaaaa attgagacaa agtgggtgtca tttagtcct 349

<210> 18301
 <211> 399
 <212> DNA
 <213> Glycine max

 <400> 18301

tagagaggaa gcttctatgg aggaagagaa tgagaatgag agagagagag agagagagag 60

acaatgacgt gggaaatgaag gatagataag gagagaagtt aaacttttaa aagtgtgtct 120
 cacaagactc taattcatca aagttatgac aagtgtttaa tatgtgtcta tttatagtct 180
 agcacatgag aaacttcctt gagaagctag gaaggtagct tccttgggaa gctagaggaa 240
 gaaaactttt ttgagaagct agagggggct actcacaccc ctccaatcta agctcacccc 300
 catgccataa tacatgaaaa tacaatggga agcttctttg agaagcaagg aagatagctt 360
 ccttgggaag ctagaggaag acaacttcct tgagaagat 399

<210> 18302
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18302

agcttatgct gccaacactt ataatagacc ccctcagcag caaaagcaac aacaacagaa 60
 taattatgat ctttcaagca acagatacaa tccaagttgg agaatcatc taaatctgag 120
 atgggcaagt cctccacaac aacaacaacc tgctcctctt ttccagaatg ttgctgggtcc 180
 aagcaagcca tatgttctc ctccaatata gcaacaacaa caacaacagt cacaacaaag 240
 acaacaagca actgaggctc ctctcaacc ttccttagaa gaattagtga ggcaaatgac 300
 catccagaat atgaaatttc agcaagagac aagagcctnc attcagagtc tgacanatca 360
 gatggggcag atggctactc 380

<210> 18303
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 18303

catcacatgt ggtactatgt ggcgggtcggg cgatgggtgca caacaagttt tccacatcca 60
 caaagcgcgc ataaacccac catcccctgt tgcccacctc caactgagct cacgtactcc 120
 cacgtagccc atatcctcgt tcctctcaac actgggtccc catcaatcct cccaagcttt 180
 cccaacatcc aagtaatata acattcagac agcacaaatt atcacagcca agcaaaatag 240
 ggcaaaaggca gaaaactctg cccaaaacac caaccaaatt cacagctttt ctactttaa 300

gaccccgta ataattcctt cgttccaatt cgttaaccgt tggatcgact cgaaaatttt 360
 actggaagtc tctagtactt aagcctacat tg 392

<210> 18304
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18304

attctttgca gagttatata gtatacacac gagttcatta gaaggggctt gatcttaaga 60
 ttgataaaac gcctttctta caaaagggtgt tattctttac atggaattat aaagctaaaa 120
 tataactaac taattataat taactgtaac taactaaaca attaacgaca gctcagctat 180
 aactaacaaa actaacactc ttaactgaaa actataactg aaaaatgatt attctgtcga 240
 cagaaattag tactcatgag ttaagactac tctaatttcc aaaagcatgc ttttgtacgt 300
 cggctttttt ccttatgcac taggcaataa gcacatatat gaagttctta aagccatgtc 360
 aatataactg gtatactatt ggagata 387

<210> 18305
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 18305

ttcttggtga cacgctgaga tttaactcaa cttttgtgct cacaagattt gtcatactga 60
 catttgagtc acgttgacgg gcggagatac cctagtgggt atccgtataa acattctttt 120
 ttgctgtctg taaaacgaaa agcctgatag catgcagaga ctaacgtcgt cttctgcgcc 180
 cttcgtcaat cgcggccgac aagcccgttg acacgcagag atttacgtca ttttccgcgc 240
 tcacaagatc tgtcactg acatttgagt catgctgacg gacggaaata cccaagtgga 300
 tatccgtata aacattcttt tttcctgtct gtaagacgaa atgcctgata gcacgcagag 360
 actaacatcg tct 373

<210> 18306
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18306

tatgacaatt tgaaattttc gagagcttcc gaagattaat ttcgagcgtc ttgatatatt 60
ataagtctga atcggacctc cgtgtgataa gttatgacca tttgaatttc tcgagagctt 120
tcgttgttca atttcgagcg tctcgatgta ttatgcgcct gaattggacg tccgagttaa 180
aaggtatgac tattttttatt tctcgagagc ttctgttgtt caattttgag cgtctcttta 240
tgtgatgcgc ctaaatacaga ctttcgagtt aaaagttatg accatttgaa tttctcgata 300
gctttcgtaa ttcaatcttg agcttctcta tatgtgatgc gccagaatca gacttctgtg 360
ttaaagttta tgaccatttg aatttctcga gagctttcgt tgttcaattt gatatg 416

<210> 18307

<211> 356

<212> DNA

<213> Glycine max

<400> 18307

attttgggat gaaacagatg tgattcatca aaaattacat ctctgctgag aagaactttc 60
ctttcagttg gtgaccagat cctatagcct ttcactccat caccataacc catgaacaga 120
ccctttctac attaacatga taataagcat tgcagccaaa tactcttagg tttgagtagt 180
ttggtgggtt gccattccat atttcaatag gagttttaag tcctatagca gtagagggtg 240
ttctattaat tagaaagcaa gttgtattga tagcttctcc ccaaaaactt ctggtgagac 300
cagcatagga caatagacat cttgttcttt ccaggagtgt tctattcatt ctttca 356

<210> 18308

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18308

tggtatggaaa caattcacct caagcagtct ccanatggta tgacctattt aaggggtgcc 60
acaattcagg gaggaagct agttccaaca tggcataaga tggaatagag tcttattcaa 120
aagctagatt ttgggaagat ggatgggcag ctgatgggat ccctttaag gaaaagtatc 180
ctagactgta cctaaactcg aaacaaaaaa aagcaatata ttttgcaaat aggagacagt 240
tcaaaagggga aatgggaatg gtgtctacag tggaagaggc tattgttcga gactgaaata 300

agtatgtggg ctgattttct ggaggaaata caagatatta atgtaaactct ccagctatcg 360
gataaatggg tatggacaaa tgataccagt ggaaaatata cagttagaag tgcatacc 418

<210> 18309
<211> 349
<212> DNA
<213> Glycine max

<400> 18309

ttcttgccgc catttttttt cgcactatgt tcttgtgtgg tggaacacgc ttcaaaagga 60
gagagctaga aatgaagagc caatgggtga tacatggacg gagatgaaaa agatcatgag 120
gaagcgggtat gttccggcta gttactcaag ggacttgaaa ttcaagctcc aaaaactaac 180
ccaaggcaac aaggggggtg aggagtatct caaggaaatg gatgtgctca tgattcaagc 240
acatatgaa gaaaagacga ggtaactatg gtcgatttc ttaatgggtt gactaatgat 300
atccgtgata ttgttgagct gcaggagttt gttgaatgga tgatttgct 349

<210> 18310
<211> 387
<212> DNA
<213> Glycine max

<400> 18310

ttgaacaacg gaagctctcg agaaaatcgt gtggtcataa attttcacac agatgtccga 60
ttcggggaaa taatatatcg agacgcacga aattgaacaa cggaagctct cgagaaattt 120
gaatgggtcat aacattttcac tcggatgttc gatccgggga cataatttat cgagacgctc 180
gaaattgaac aaccgaagct ctcgacaaat tagaatggtc gtaacttttc acgcgaatgt 240
tcgattcggg gacataactc atctagacgc tcgaaattga tacaacggaa gctctcgaga 300
aaattgaatg gtcataagtt ttcacacgga tgtccgattc gggaacataa tatatcgaga 360
cgatcgaaag tgaacaacgg aagctct 387

<210> 18311
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18311

cttagttctt agttatgaac agacacaatt cacatgcagt accgtttggt tcatattgct 60
gctggagaat tacttacggc agaaattgcc actggaagtg ataattggaaa gcgagcccca 120
cagtatatgg agaagggaca gttggtcctt gacgaaattg ttgcgatggt atgtatgtat 180
gtatgtcgtg actaatttct cttcaattct tgtttctcat atcatatcct tgccttctgtt 240
tatgctatat agatggtaaa gagcgtctct tgaaaccaga ttcnaaagag aatggttggc 300
ttttggatgg atatcccacg agcttatcac 330

<210> 18312

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18312

ntgcgataaa atgtaatctc aatacatctc aggcctttaa atggatagat tacttgacag 60
ccctaagcaa ggtgcaaate caatggtaag tggtaaactt gagcttataa aagctaagat 120
cacagttcat gacaatgatt cgtattatag caccacaaaaa ttcgtattgt gctgcttagc 180
atgaggcaaa gcatgcaacc tgtaccctgc gcatcatctc attatggagg ccaatagggtt 240
tcaatctggt cactgctaaa aataatgcac gtaccagaga tgccccacta catcaaatec 300
gcacacactc cacaagttta caaatcctgg tcttatttct ttactacttg tttcacatga 360
ttgaccactc cctatatcca ttctaaaaca ctcagatcat gcaactc 407

<210> 18313

<211> 373

<212> DNA

<213> Glycine max

<400> 18313

ataccacaaa tcttatctac agaaccaagg tctttcatat caaaatttct agacaagaaa 60
aacttcacat catttatgaa attcatttac taccaaatat caatatgtca tccagatata 120
taaaatgacg catccattat catcaaattg tttcacatac acacatttat cactatcatt 180
aatttgaaaa tcatacaaaa gaataactta atcaaacttt tgtgtcaatg atttgagact 240
tgtttcaaac catacaaaaga attaacaatt tatttttcaa gaaaaaatat tttcaaagaa 300

agtcacatct atagactcca taatagtacc attagaaatt tcaaatactt ctgaattaat 360
aattaagaat cta 373

<210> 18314
<211> 403
<212> DNA
<213> Glycine max

<400> 18314

tctcatttga tccaacagag gatgagcata caacctatct cactcaagtc acaccacagg 60
aattcaagca caagagactt gatcattgcc atcttgaaag aatgctaaac atgaaaaaaaa 120
gaaaatatgc aaaagaaaat tgaagaagtt tcaaattggaa gaatgcaagt ctgttagcac 180
accaatgaat caaaaggaga agtttagcaa ggaagaagggt gttgataaca ttgatgaagg 240
atattatggg agcttgattg gatgtctaata gtatctcact acaacaagat caaacattct 300
atttgctcaa aagaacaaaa ctggaatttt tgttgacaat caagtagcca ttgctattgc 360
aaacaatctc gtgtgtcatg ggaagactaa acatttcaac atc 403

<210> 18315
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18315

atgcgaacca ggaaaaatga aatgaacaga aaacgcttgt gggattatcg tctacggggc 60
ttatacagag aaacgaatca aggacctaaa aagggtattat taaagagggt aaaaaaacgg 120
aaattgtaaa acaagaataa cataataaca gtattttact tgagtcataa cataatttct 180
tttatattta ttatttgata atcgatacac attataagta tttagtttta ctatttatat 240
tggttactag atataaaact tagacggaat atacgcgtta accgtaaaaa tcataaaaaat 300
gtctttcgat agataagtat atnttcatgc tagaatttat tgacacatac gaattttgtg 360
tatcatga 368

<210> 18316
<211> 401
<212> DNA

<213> Glycine max

<400> 18316

tttgggctat gtggttgctt ggtttatcac tctctaggga gcaatcatgc tcaattgata 60
gaggaggatc ttctccttag ttgactcatg cacgggaaat tgaagattaa ttgggtcaac 120
attattattg atgacatgat gaagaccacg atgattaggt cttttatgtg tccctatgca 180
atgttgatct caagaatcct tgattacttc ggagttgata cccaagaaga agtctttgct 240
tttgttgaag ttgaatttaa ggtgaagtcc aaagttttga agcagatggg gtaatcaatc 300
taaagcatct ggagttggat aaattgagat aaacaaagag gatcacacaa cacaacaaga 360
tctagaggag acgcctatga gccccttgga gcagatgatg c 401

<210> 18317

<211> 362

<212> DNA

<213> Glycine max

<400> 18317

atcttatagg agtcaacgtg tcatcatcca actcgcaatg tgacaaaact ttgacggtca 60
gtcaaccta tacaagctcg tacctcacia tccccaacgt aaagagagac ccaactgagct 120
taccacacac aactgtgaga ttaattgctt aaccggagac attaaggcaa tggcataata 180
atgatagcga ataaaggaaa gggagaagaa tccgataatt gacggtgcgg tgcgtggagt 240
gtattgcgac agagatggac gccgtagcaa caggatcgga gctgaacaag tccggaagcg 300
gaggttcgga acgaagcgat gacagcggag gaactggacg aagatggata tttgagtact 360
ct 362

<210> 18318

<211> 407

<212> DNA

<213> Glycine max

<400> 18318

tatgacacaa ccacctgcac ctttataaaa cccacttggc caattcagtg gagaccaagg 60
ggatcatgaag tggattcaac taggactccc cgtgattacc atatagctct agggttaccc 120
ttttatgact actccttcta tagtagtgta agattaatag ttaaatacat gtatgaaaaa 180

aaaaataaca attaaaacta aaatattaca agatttttaa attaattata aaaacttcta 240
aatatatattt catcaataaa ataaaattaa aaatatatat aaatatcata taaatatcta 300
tttttggtat tccgtattta tactagatag gtatttggtt agggcaacca agtacttatt 360
ggatccgccc ttctatagag acaaaacaat tatgcttatg agtaatc 407

<210> 18319
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18319

tttttggtan gcatctaacg agctctggtg agtacacagt caagtaagct taccatcacc 60
taatggaaaa gatgattcaa aatcaaggct cacggggttag tggaatctgg atgcatattt 120
ggaaacttca aatcccacca aaagtcaagc atttcccttg acgtctcctt cgtcattgct 180
tgtctactca agctcatctc caaacaaaag gtgtgcaatg tccttgctta tgtctttttt 240
gtgataccaa cattgagaac gaatgagaca ctttcttttg atgtgattaa gttgtacatt 300
atggggcagc tactggtcag tggaacacca tggctaggta tgttgatcag gcgaaaggaa 360
caaatgaatt ga 372

<210> 18320
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18320

gtatgataca gcatatgnnt tttctttctt ctatggtttt tttgtacgt ttggatatat 60
ttctaggctt actttgattt ttatgcagta tatatgcca tcaatgtgag ttaatgagtt 120
ttcaacttca gtctcaggtg aaaagatgaa gaaataaatg gccgttgtag gtgggtgtctc 180
gctaagcgag gcatatgctc ttatcgagca acatctgcta agcgagacat catcccgtt 240
aacgagtgag gagaatctgg aaaagaatct gccatgcatg cacacgttca gtgtgccatc 300
agctcaccca ccaagtagtt tgtccttctg gccctcagcg aaaaattact aactcgcgct 360
tagcgc 366

<210> 18321
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 18321

tattcttctt cacaatagtt tctttcagac acatcgggtt gtttcaaaca ttaaatttat 60
 ttttacctaa aattagtctt gattttgctt attttaattg ttgaaatttg ctttgcttat 120
 gaggtgtttg acaaaatggt taatttctaa tagaatcaag gtcttttttg gtttaatttt 180
 ttagtttcag attttgtata ttgttccttt tttggtataa ggcttgacta ggttgcattt 240
 ttgtgttttg tttgaaaatg actttattaa gcttgaaaga cccgagaagc ttcttcacaa 300
 tagtttcttt caaacttcac accgatttgt ttcaaacatg agatttattt ttatctaaaa 360
 t 361

<210> 18322
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18322

tttctttag aatggctaga catgatacat gtcaggggtt ggtttggttc aaggataaaa 60
 gggatgcccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaactttatg 120
 caaaactggt catgcatgca cctatgtgga cactcaagtg tcaaattttt atggtcatgt 180
 gatgctaggg ctgangattc atttcctcta ttttagtcaa cccaacgttt ccaaaatatg 240
 ttcttttata aatttgtgca ttcacccgag tccattntgg gcgtctggga aaatcttcac 300
 agcattcacc cttcangtgt atacacattt tttcaaaaac tagttatgat cagt 354

<210> 18323
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18323

gctatcagga cctatgaaac tcagcttnag tatgcccag tcattcatcc ctatgagatg 60

[illegible]

<400> 18324

<400> 18325

7673

ctgt

424

<210> 18326
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18326

atcttaaaga tgctccaaat taagatttca accactcggt tcagagtctt aatttcatta 60
ttagattcta catgcatgta cttgtgtata tttcatgtgt tgttgcatat cgtaaagata 120
ataaataaat taaagtagca aagattacaa cggttatgct tactagcata tttggaatat 180
tattaaatag aaattntatt aaaaatataa taaatatact gataatatta aatgttatac 240
acattttaat acatattttc atttaatggt atagtataat tatccatcta tttattcagg 300
ggtttgatc aacctctgat ccaacccgat tcaatccaat taaattagat tgaatttttt 360
aagtgtttaa gtcaaattca attcaac 387

<210> 18327
<211> 433
<212> DNA
<213> Glycine max

<400> 18327

ctatagacaa ctcaagcttt gaacaatata cttgcccttc atttaactgt ctctgtgtct 60
tggcggctac gctcaacaaa gtacttcgac acctactgta cgttgatctg acctatgttg 120
ttatgggaat gttgcgacaa tccttcaaaa cttattgat acattctgag aggttgattg 180
tcatgtggcc atatcgacgt ccttttctat cataagccat cgtccatttt tcctttgaaa 240
tgcatcaat ccattgtgct atggctggac tcaattcaca aaatttttct aaatttcgat 300
aaaaaactgt gcttgcaagg agtgtatgct gcataaaatt acttatgaat aacactttta 360
agtctatata aaagttacat aaacgtcacc atcaaatatg acatcttacc caatttcttc 420
aacatttctt ttt 433

<210> 18328
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18328

tttttgcgtc cagtgcactt tntggcatcg tattgccc aaatcctgagc caacatcaca 60
aaaacccaat tacatccaaa ataaaagtta cattacatgc catatgaata ttaagatctg 120
aattcagaga tgacaatata gtaataccaa acaaaattga agaaactttt cccaatataa 180
ttttttgcc aacagaaatag gagcagaggc atgacagaaa tccataaaaa tttcttaatt 240
ntttttctaa tgcaaaactga ttagttacca taagttttga tgaanatgaa actgttatta 300
ttgtgaatca caataataac agtaaaagac gaaccanacc aatccacctt ataaaaacag 360
ttcagt 366

<210> 18329
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18329

tgtctttgta aacgtatgct ttgtttaata aaaattatat tattagcata aacattgtag 60
aattgtacta ataatatgat gtatcataac gtaccaatga catgtattaa tttcctatac 120
caacaataga tgatcatgggt agtataacat gtaataatgt tagtaggata accgtttaat 180
ttttaatata taaagtctaa actaagcata ataagcccaa agattaacat ttttttcctt 240
agtatatgaa tgtgtgaaat ggaattgaac tattgtattg atagtatatg agtgggtggga 300
cacacatgat ctttcgctaa caaagtgtcc cagtcgttat cctccaacag aacccttggt 360
tcttcataac ttanagccac ccgataattc aaatctccaa gccatattat tcgactg 417

<210> 18330
<211> 346
<212> DNA
<213> Glycine max

<400> 18330

atcttcggaa gcagaacaat cttgagcatc ctctatctga taacattatc aaatcaacca 60
tttttgctag tgttttgcaa tcataaatca cataatttta gaatagctcc aaataaattt 120
catcaaagat caattaactc ctattgcctt agatgggtat aacagtttct ctgataaaga 180

ctgttgggtg atacttgctg gcagaggata tatgcaagac tcatagtata cttaaatttt 240
gacagcaaac taagtttaag taaaatcaat ctaagttata actcacatac atttaaatat 300
agatatttct gtagaaaggt tcgagtaaaa tctatctatg attctt 346

<210> 18331
<211> 407
<212> DNA
<213> Glycine max

<400> 18331

tgggtgaagta ggagtgccag cgggtgattac cgtattgggg agattactga caaatggttt 60
aaacattgtt gagagttgat gggaagtga attggctgaa tggctgatct agcagccagc 120
ctttgaagct cagttctcgc cttgtaagcc acgccacgaa ttaaattggc tggcagtga 180
gccaaactca ccatcttttg ctcaccatgg tcttggagaa ggagataccc tatgatcttt 240
gtagtatgct caggctcaaa tctttgaagt ttatcaaaaa caatcctcgt gtactccgaa 300
atatccatag cttttcgtca ctgcaagaag tcataacaac cttaacagag atgaacaagc 360
actggtgaga aaataggcat agagatacac aattgcagat tgagcat 407

<210> 18332
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18332

agggtgggga ggggtcgaat gtctgaccaa gagaggaatt ggaggaggac gtggtaacga 60
aggatgttgg caaggacagt caaggagaac tggttgtcgg caaaaaggta ggagttgaag 120
acgatgagaa tggagaggga ggatgagaga tccgttatga ggggcatggc agaggtgaga 180
agagagatga ataaggataa tattatattt ctatttttgt tagacaatga acaagaagtc 240
gtacccaaat ttagtgagtt ataagttttt aggtatttgt caagtccatc attntttttt 300
atttgtact attcctcaat cattttttta atcaaacatt tataaatatt ctttttggt 360
tccaatctct ta 372

<210> 18333

<211> 404
 <212> DNA
 <213> Glycine max

<400> 18333

tttggacatt tattaattgg gatcttaatt attagcatgc tccataaatc caaagttaag 60
 gagtaaaata tcatttatta atcactaaca cccaccacat cgtaggcgta cgtacgtggt 120
 cgccctaate tcttgtaaat agattaataa gtcaacaacc agctgtgatt ttatcttttg 180
 taattattca tagcagggca ttttagtggt gaagtagaag tggttgcagt ttcaagagaa 240
 ggccacaaat ggaagataag aggcacagct ccaactaata aaagccgacc ttgagcctc 300
 aaatggctcc gatcagaacc cccaacagcc actggacca ccccttcacc accgtgtcct 360
 aataccagtc attcttggcc ttttaccac gaagatcata ctcg 404

<210> 18334
 <211> 290
 <212> DNA
 <213> Glycine max

<400> 18334

ttgcatgcaa gtttatatat acgaccatca aatcaggagg gaaccagact cgttatgcgt 60
 ccatctatcg tagcaagaat tgcaatctgg ttatgttttg ccttgcataa aatataattg 120
 tgtaattata ttagcttcta gccttctaca aaaattactt aatgatctgt gaagtgaagta 180
 ttatattgtg gaaatattga tgtggctatc gggaagggat cttctgcatg gtgaaggatt 240
 aattggagga gccacaatta ttctcttctg ctgcataccg catctcacia 290

<210> 18335
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 18335

ttctttgaat agtatgaaag accctccctt ctactttgta aaatagattc aatagaaact 60
 aggaaaataa acaaatatat tcgccgagaa ataggagaga gggatttgaa ccctcaatag 120
 ttcttttttt cgaactatat tgattttcaa gactgaagtt gtcaaccact caaccatctc 180
 tccaaaagat aatttatatt ctatatttat ttcattgaat aaaacatgag catataaatt 240

gatacttatt atgtgtgtac ccataagggt tgaacaacta ccaagggtat ggctgagaac 300
 cttttcgggc aaagccaaac acccccagcc ataaccagat atcccaaggt gactaattac 360
 cctcgggct 370

<210> 18336
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18336

ctgganaatg atttcttttc aaaagttagt cgtattatgc gactaacaaa ctgcaaataa 60
 agcaaacaaa gaatggtaaa tttatttagtc agtcaaaata ttgcaaagaa ctaactaaca 120
 agtttgggat ggaaaatgct aaacacatgg ccaactcctat gagcactgcc tgctatctgg 180
 ataaagatga aaccgatcag tcaatagata taaagaaata tagaggatg atcagatctc 240
 ttctttatct atttgcaagt agacttgata taatgttttag tgtttgtatg tgtgcaagat 300
 accaagcaaa tcccaaagaa tctcacctta gtgcagttaa aagaataatg agatacttat 360
 taggcactat aaatctatga ttatggatc ct 392

<210> 18337
 <211> 345
 <212> DNA
 <213> Glycine max
 <400> 18337

ttttaagcct aagatactta tctgtggggg gagttcgtat cccaggggaat gggactatgc 60
 caagttcaaa caggttgctg ataagtgtgg ggcagtggtg atgtgtgata tggctcatat 120
 cagtgggtctt gtagcggcta aggtgatttg aattttctgt cttttctctt tgttcttggt 180
 gaattatggt atcgatttta tgggtgttta tgcacttgaa ttagttttct ttggagtgtg 240
 gaggcagatg tattgtatgc tctagaacta gtatagatgg agttgataga acaatttacg 300
 tgctgtact atgaaccaac atcttcagac ttattcctgt cttat 345

<210> 18338
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18338

tgtttacaat gctcctttaa tcttattgat acaatatag caacaagggt taattatgct 60
 taagctcgtg ccttttggag caaaaggatc catttgattc ttatgtacta ngattgcaaa 120
 aagtggaagt agtgagtttg ttctgattgt tctgagatgc aattttcttt tgtttgcagg 180
 tcagatcact ggggcaaadc ctacaattcc tggaatgttt ccaaataatgt ttccgttggc 240
 tacaagtcag gtattttttg tttctttttt cccagctatg gttatttagt gtcaagttct 300
 tattaatttc actctattct tgtttttttc cttcttaaga tgcagcaatt tagtgctctc 360
 cctgtcatgc cagtgcaggc tatgactcaa caggtaaaaa tgc 403

<210> 18339
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18339

tttgcattgca ttcttgaact tttaaagcgt aaagttacgt tactgtgtta tttattaaga 60
 ttaatccttt agaaagcgt aacatgttgt tgtgcttgaa ttatttatta aaattaattg 120
 tatgtttatt ttggtattta agcatacaat attaagctaa actaaataat ttatgcatat 180
 taaatttaat ggttaagagt ttatatgttt caaatattag ataatacatat gcatataata 240
 tttatttaat tctgaagttt tgtgtgtatg atttatgatt ttatacatgc ganattatct 300
 tgaatatnt atacaatatt atttggttta ttacattat ttaaaatatt atataaataa 360
 ttagc 365

<210> 18340
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 18340

tcctattctt ctggtgaagt aaaagtgaga ttgctatgat aaagtagttc ttgatctgat 60
 ttacaaagcc atggaaccag caaagtcact ttctgctttg cagattgtga taaatatgca 120
 gctcgaaata gcgggtttac aactgttccc gtcaccaag gaagagtatc agttgtcact 180

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attgcaacat gtctttcatt gtccaatgga tgatgctttg catgggtctgt ccataatcca 240
ccttcatacc agtgccttat gctctgaagg acacttgтта ttggtaaатc caattgatca 300
tttatgtttc cattccctag aacagaagat tcttccccaа agagggaata аcaaatcgag 360
taaатcttaa actgtataaa ctagctgact gcctataaaa ctac 404
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<210> 18343
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 18343

atcttttcct ctagctgttc tgataaagtt gtccaacggt atagaaggag aagagattga 60
 agccttcatt ctactggctg catgcaatga atattttcttc ctaacaagat caattttcaa 120
 atcgcaacgg tgaaaatatg cagaaatgaa tatcgaaacca ggtgtcccaa tttcacaatg 180
 atccaacggg taatgagtct gggattatag ttttactatg acaagctttg ggtctctgca 240
 ggacaagaaa aagttaagat gagaaaggaa gttctctcac ctccaactct gattcgcaat 300
 ttcacggtg agaatac 317

<210> 18344
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18344

ntagattagt gattacatga aagagtgcac aatattttat aagcattgag tttgaaatgc 60
 gatagatata aaagtgtgaa tacatcctaa aatacatata atggaaattg atgattgaat 120
 gttcaagcaa aatgtctaaa aactaggcct acccatacat atacgaaaga tagagaacac 180
 actagtctca aagcagtcac cactaaaccc aaacccatgg caaggaacta cacaaacgtg 240
 ttgagataag agtcaacaa ttagaagagc ccccataatg ggactcctga gaggaacat 300
 cacacatgac ctcatcaaga tcctctacag gaccctcatc attgctctcc ttaatgagcc 360
 atctgtctct tcctaagga aactctctac t 391

<210> 18345
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 18345

tgtcttaaca tcagaccact tccagggtgc tggaactact tcacatggac ttgatggggc 60

ctatgcaagt tgaagcctt ggaagaaaga ggtatgccta tgttgttgcg gatgatttct 120
 tcagattttac ctgggtcaac tttatcatag agagatcaga aacctttgaa gtattcagag 180
 agttgagtct aagacttcaa acagactgtg tcttcaagag aatcaggagt gaccatggca 240
 gataatttga aaacagcaag ctactgaat tctgcacatc tgaaggcatc actcatgagt 300
 tctctgtagc caatacacca caacaccatg gcatagttga acggaaaaca agactt 356

<210> 18346
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18346

gttgctntct cttccatgtg gcgactcggg atcctctacc accccatttc tattgttggg 60
 acagtcgggc cattcttgcg ccgagatctt gacccctttt gctaactctt gacatggagg 120
 ggtatatccc agataataga gacgacttcc ttccacctat cgggcatcgc aggatccctt 180
 caaactctac tacgggttggg attaactgaa agtcccccaa cgtgaagcac cttaacgact 240
 ggtcgttaata ttgagtggag gatgcaatgg cttcaacaaa cacttctatc atagccaagt 300
 cctatagggtt tccatgtctt gcggaaggct tgacgatgaa gaggatccat tcgttaccc 360
 agctc 365

<210> 18347
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18347

ttctttctcaa gcaatcttcc atcatatagg acactaccaa atgccaaatg gtgaatatga 60
 gtaatcccta gaaagctaag ggaaaaagct acaattgttt taaaaataag cttaggccaa 120
 ttcttttggg ttgagggtca ttttaggctt ggaagtcaga gcctttgcac ttggataatt 180
 gggctgcgaa attagggttt gctttgtgta attagcttaa ttagatagat tagatgggcc 240
 taatcaagac ccactttttc cttccaatta gtcacaatat atattagtat agttagttag 300
 ttatttccat tttgtatgaa atagaattta gaaacttctt ttgcaagctt ttagaanaaa 360

ctctttttctc tctttttctc tc

382

<210> 18348
<211> 425
<212> DNA
<213> Glycine max

<400> 18348

actcacgctt ctccattca ggtctcttgt catttggaac gaaatcagaa gctttctcca 60
agtggatcatg atgaccttga tcgagaaacc aaagtaccac ggaagcagac catgagggat 120
aattcttcca attcagctta gcagtagtga tggtcggagt ccagagaag gagaaaacgg 180
gtccagaagt agccattttg gccacaaga tgaaacccta aaggggtaaa aaagagagaa 240
gaatggggtg atacgttcca ggcaacaaaa ctcaaaactg agggctggaa cgaactcaga 300
agaggccgac gagcagatag gtggcggcac ggcgcaattc cggtgacggc atggaggcgc 360
gtgggcttca cgcgccgaag aacgcgcgtg agaaaggtgg cgtgtggaga ctcctttggc 420
ggcac 425

<210> 18349
<211> 380
<212> DNA
<213> Glycine max

<400> 18349

tgcttcaaga attattttga tgatgctaag gaatttcaaa gatcattcaa gatggatttc 60
aaggatgaag aaagcaagat gtcaagcaaa agaaaagatc tcaagataag aattaagata 120
aactcttaga aaagtttttg aaaagcacia ctgattggcc aaatgagttt ttatcttaac 180
aaaaattttg caaagcattt tagtctctgg taatcgatta ccagaaggta gtaattgatt 240
actagtagcc caaatatttc tgaaaatggg ttttcaaagg tgtaatcgat taccatggct 300
ttgtaattga ttaccagtgc ttataacgtt caaaaataat ttgaaaaacc ttgtaatcga 360
ttacacaaaa catgtaatcg 380

<210> 18350
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 18350

tgtaaatt ggtgttttca gtaacattgg ttttctgtaa aaccaatgtt aacacgagtt 60
 tgtaaagtc gattttttta aaaccgatgc taatgaactc gtgttaatat tggtttttta 120
 tcaaaaacca atgttaacaa acttgtgtta ttacgagat tgcccttggtg tttttgttaa 180
 catcggttct tggtaact aatgataact tagcgatgct aaaaccatta tttgtagtag 240
 tgtgtgaagt gttcaagtga caaaattcta atgaatgcat gaatatgtca aagaacctca 300
 cagaattgaa gtggcacaac agacacacaa gttgtaagct ggtatTTTTT attccatgat 360
 aganaatagt gaaaacaata aaataatgaa atgaaaataa tatgattttt ataatta 417

<210> 18351
 <211> 301
 <212> DNA
 <213> Glycine max

<400> 18351

ttcttggttc gaggtactta cccgttgaag atcgaagaac gatgaagaac gaatgaagaa 60
 cgtcgaagaa cggttgaaat ctttgcgaaa ttcctcacgg aaaacgttac ggaaacgttt 120
 cggaagcgcc tcggcttaga ttttcttcac ggaaacaatt tttccaagca aattcgaaag 180
 agagagaagt gccaaagggg ctgaaccctt tccttcttca cttcctcccc tatttatagc 240
 aaaatagggg aggtggttgc cgcccagctc gccagggcga gctcagctcg cctaggcgag 300
 c 301

<210> 18352
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18352

cgctttgaga aactcanatg gtcattactt ttcactcgga tgtccgattc atgcgcatca 60
 catgtcgaga cgctcgaaat tgataaatgg aagctcttga gcaattcaaa tggtcataaa 120
 ttttactcg tacgtccaat acaggcgcat aatatatcga gaggtcgaa attgaacaac 180
 ggaagctctc gagaaattca aatggtcata acttttact cgagggtccg attcatgtgt 240

[illegible]

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<223>      unsure at all n locations
<400>      18353
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gacctcaagg	tgatggcact	cacatttttt	ggattctgca	aagtttgtga	agtcaatttg	120
tcagaatttt	gggactgagc	ttgattcatc	tgagtagcca	tctgccccat	ttgatttgtc	180
agactctgaa	tggaggctct	tgtctcttgc	tgaaattgca	tattctggat	ggtcatttgc	240
ctcactaact	cttctaagga	aggttgagga	ggagcctcag	tttcttgttg	tctttgttgt	300
gactgctgct	gtattggagg	aggaacatat	ggcttgcttg	gaccagcaac	attctg	356

<210>	18354
<211>	420
<212>	DNA
<213>	Glycine max

<400> 18354

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tctttgcttt	tgtcggttaa	catggaccgt	tcaaaagcat	aaaagtccat	acatcacttt	120
actgcctttc	gcgagaacta	cgtaggtctg	atttcctctt	cgatggagga	cacgtaggag	180
caaaagcccc	gcttttgtcg	acctcgtgag	atgggttagag	gtccaatgcc	ttagctttct	240
caccaagtaa	aatggatcat	tttaagggtc	aatgccttaa	atgaccccct	tccaagtaaa	300
aagaatcact	tgattcgccc	cttttgtaag	aactacgtac	gtctgatttc	cttatcacia	360
ttgaggaata	cgtaagagca	agggaaacac	ccttgtcgac	cacataaaga	taaaaaata	420

<210>	18355
<211>	340
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
<400> 18355

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tcaaggtttg agaagtgaaa atgagaatgg ggtaaattta gagcaaactc tcacctcaca 120
caagtctata accttaatct aaacttgctc aaactggttt ttcacctaaa attccaccaa 180
atcaaaattt gactcctcaa cacctaattt taccctagaa atggcctttg ccttcacttt 240
ggctctttgt ttttctctct tgcacagccc aagctttctc ataagtccta aatgacattt 300
caaaactanga ctaactcact ttaacctcca atttctactg 340

<210> 18356
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18356

nttcctatgg ttgttctact agggtttcca agcatcatag agaaggagaa gggattagag 60
ccaccatttc actatctccg tgtgaggga atttctctct ctatagacat tatttcacaa 120
atcccaacag tgaaaatttg cagaaatgag ttcttaacct ggttttcaaa tttcatgatg 180
atctaattgt taacgagttt gagatcgtag ttttactcag acaaatttgg gtgtatgcga 240
gaaaaagaaa ggattttgag agagggagaa gggaaaacga atttgagagg aagagagagc 300
gtaaagacat atcgtaaattg taaaaactaa cctaatatgt ctttatttat agttagagtg 360
atctcagcct attatttact ctatttttct taaatttata aaaagaaact ctatttta 418

<210> 18357
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18357

ttctntagac aaaggacaac agtggaaatc aaaatcaaaa ctttattgtc gcttctcttt 60
aattctacca ttggaggtaa ccctaacgac tgcgtgtaga ttttaatcat aaaatcattg 120
ggccctacca attaacattg atttgggaaa gttgcctagg gtgtgaaaga aactttaggg 180

ccatctaatac aaatcataga agaaaaaaga taatacaatt aatgcaatga agaacttgct 240
 cttattaatac aatttaattt attatagtta aactcttggt aggagacaag ttcctotcat 300
 aatggacgaa gatgggtatg atttctgctt tctgtcaaaa gctatacttc aataatgaat 360
 acagcttcaa ccaaaaaa 377

<210> 18358
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 18358

ttctcataag taaaaaattg gtacacccaa aaatacaaat aattggccag ctttacataa 60
 ttattccaag ggtcttgctt aacttttctg aacaaatcat tgctgcttat atgtaaagaa 120
 atgaaactga gtaggatttt ggcaattctt ctgatgctgc catatcttga aatggtattt 180
 ataccattct gggagatcac aagttggctc cagtctagct cttgcttccc aaaacatggt 240
 tgcgatttac agaagcttct ctttgatggt tacgcatttg aagtctaaat gttaaaattc 300
 cccttcatat ttgtgataat ggaatggagt ctgtgttggtg tctgaaatta ggtgaacttg 360
 tcccgtatca ggg 373

<210> 18359
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 18359

ttctttatag ttgaaagcac gagtcaaggt gtgaatatat gagggacgac tgaacagatt 60
 ctttatgata aaagtacggg agagctatgc gggttttaag gagacgaatt atttactggt 120
 ttatattaaa catattatac gtataggata tattaatttc tgattaatgt gatttttata 180
 tcatacatga tcttcttgat taaatttctt atttacgata ttctgtttca tataaccattc 240
 tttgtttgat ttgacattaa ttatttttctg attgtataga ttctgcactt gct 293

<210> 18360
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18360

tctgtgggtc cggatgcgtg tggcagaacc tggaatatgt tgtgtagtgc tccccctgct 60
ccaaaaccac catggtctcc aagaatgtgt tcagtgactc cctaacaaac tttatcaact 120
tgtccatgtt gagatcggac gtatgagagg tgggggagag gttggagtat gatagcacat 180
tccaggtctg ggcaagtgtg gtaaggctct tcctcagaag cttccaaggt gcgcctctca 240
cgttcagaac aagtcctcac cttggaatgc agagcttgga tgcaagctct tgtggggttg 300
gatgcgtgtg gcagaacctg caatatgttg tgtagtgtc cccttgatcc anaaccacta 360
gggtctccaa gaatgtgttc agtgactccc caacaaactt tatc 404

<210> 18361
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18361

tgttgcatgc aatctnttcg caaagcttac ggtaaaatat gggacctaac catggtagaa 60
gtctccacag aggccattgc ctccctcgcc cagtattatg atcagtcgtt gaggtgtttc 120
acctttgggg acttccagtt atcacctatg gtggaagaat ttgaagagat cctaggatgt 180
cctctagggg gaaggagacc ataccctttc tcagggttct atccctcatt agctagaatt 240
tataagatag tccaaatctc agcgcaggaa ttagaccaca gaaagcaagt cgaaaatggg 300
gtggttgga taccgagaaa atgtttggag gcaaaagcaa gaat 344

<210> 18362
<211> 394
<212> DNA
<213> Glycine max

<400> 18362

tgtaatcgat tacacacata ttgtaatcga ttactatagg agtttttcag aaaacattct 60
caacagtcac atctttttgt gtggttcttg aatggctatc ataggcctat atatatgtga 120
cttgagacac gaatttcata agagtttttc agaacaaaaa gatcttatcc tcttataaag 180
caaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240

ttatttgagt gctcaaatta ttcaatctat ctctttcaag agagatttct tcttttcttc 300
 ttcttcattc tgaaaaggga ttaagagacc gaggggtctct tgttggtgaaa gaattctaaa 360
 cacaaaggaa gggttgtcct tgtgtgttta gaac 394

<210> 18363
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 18363

tttgcattgca atcttgccac ccagctcgtt caggcgagca gggttgcttc ctccagaagc 60
 aacagccttc tggaggaatc ttctggaggg cccaagtggg cctgggtgct atttgcaccc 120
 ccattttttac taaatacacc ccctgcccct tttttgtga ttcttttttc gtaaagttac 180
 ggaaacttac ggatttcgca acgatacttg tttcttttcc gtaatgttac ggaaccttgc 240
 ggattacata atcatcccc ttttgactta cggaagggtta cggaacctca ctaattgtgc 300
 aacgatgctt gcttttgatt tccggggcgt cacgaaacct taccgattct gcatcaatac 360
 cttcctttga tttccagcat gt 382

<210> 18364
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 18364

tctcaaaaga cttgtgtaat caattacaga tagttgataa tcaatcaaaa tagagaagtt 60
 ttatatattc gggtttttag aaaatatatc tataactcct cctagattct cttaaaaaaa 120
 taaattggct attattaata gttaaatatt acctcctaaa tattattttt ctacttactc 180
 attttattta aaaatatata taataaattt ttttaggcta aatactttct tctttatata 240
 aattttctat ttagttatta tccgggattg tccaaaaata ccacctacca tttctttaaa 300
 aaataaataa caaatatttc tttctttaat attgcgcata attataaaaa tggttgaaga 360
 ctcaaccatg gccaaattag aagcctctaa aggcatagat atta 404

<210> 18365
 <211> 376
 <212> DNA

<213> Glycine max

<400> 18365

ttctttgatg caacatttgg agagggttaat gaaacaacaa gatgatgcgc tccatgagag 60
gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaatga 120
tgggtgttcct agacaaaacc gaattgatgg tattaactc aacattcctc catttaaagg 180
aaagaatgat ccggaggcct acgttgagtg ggagatgaaa atagagcatg ttttctcatg 240
caacaactat gaggaggacc agaagggtgaa gcttgccgcc acggagtttt ccgactatgc 300
tcttgtgtgg tggaacaagc tacaaaagga gagagcaaga aatgaagagc caatgggtga 360
tacatggacg gagatg 376

<210> 18366

<211> 407

<212> DNA

<213> Glycine max

<400> 18366

tgtacattca atttcgagcg ttccgatata ttacggtact caatcggaca tccgagtaaa 60
aagttattgt tgtttgaatt tggtcagagc ttcaacattc aatttcgagc ttttcgatat 120
attacgggac acaatcagac atccgagtaa aaagttattc tcgtttgaat ttgctcaggg 180
cttcggtaat ccatttcgag cgtctcgata tattacggga ctcaatcaga catccgagta 240
aaaagttatt gacgtttgaa tttgctcaga gcttctacat tcacattcga gcttttcgat 300
atattacgga ctccatcaga catccgagta aaaagtgtt tgcggttgaa tttgcttaga 360
gcttctacaa tcaatttcga gcctttcgat atattacggg actcaat 407

<210> 18367

<211> 285

<212> DNA

<213> Glycine max

<400> 18367

tgcttgagcc agttccaaat cactatgttg ccttgagcca tccccgacaa cagttcctga 60
gccataaggg gacccacctt tgaccttctc catctcatac atgccatctc caaatgtgta 120
cccaaccgga acataaatca ttccatggag aacaagctga gtgacagagg tcaacggggg 180

ctcttcttgt acacctcctt gagaactagt gcttgagaag aaccctgcag gtttttctgc 240
tagtgccctgt gtatgccaca gccctataga gccttctaaa aatgc 285

<210> 18368
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18368

tctctttctt tctccatcaa caaagntacc atcttgagac tctttgtctc tgtctttctc 60
atgcattgaa ttcctcaaca acaatgcaca gaatgtagaa catagactag gttatcaaga 120
aagggaagat ggagtttgat cttgaagacc cactagtcag cttggaagaa gagcaaacct 180
ttactatatc agaactcttt gcctccgaat ctgaacacgt gccctcacca aactgcttaa 240
gttcaacaca ttttcacgtt ttctgtggtg aagccatata tctcattctt cagggtgaaag 300
ttatgtctat gtaaaagggt cagctcccc tccttcatgc cacatttgct acattatggt 360
atattgttat gtttcttcag gttcagggtt cttgcacatt 400

<210> 18369
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18369

cnagaccggc acaangcgca aacaggcgca aagangaagg ccgncgcgga acgagngggg 60
agcgngcacg cgaaaggaaa anngaacaga gaagacacaa caccaacgaa gaaaggcaac 120
nctctaactg acaggtggaa gaagaatgcc tccccatata atctctcaag aaggcattta 180
ctatgcctct attcgagac ctataccgag ccttaciaag gcccttaatg cctgacgcat 240
ccacgaaagg cctcatctac gcctgggtag gggaagacat catcatacca tcgtggctaa 300
aagccaagcc ctactggggc ttatggaacc aaacaggccc gctacatggt ctact 355

<210> 18370
<211> 310
<212> DNA
<213> Glycine max

<400> 18370

ctatcaatac tcagctggat ttgcctgat taatacaata tatgtatggt ctaaccatgt 60
atacttatat acttatgagt tatttaatga cgggtgctctt gccatgaatc tcaacatatt 120
acgaattaat cattgcattc tggatggagt gggatactaa tgggagctaa ccatcgact 180
tcttatectc tttctttaac agacacctaa tatggttttt aagggtatt acatactgtg 240
aatattaat tgccgcctt atgaaattaa aagtaggta tatggcaaac ccgctgacta 300
ttatctctat 310

<210> 18371

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18371

atcttttgaa aagtgggtgct tctaacttgt attttctagg ctccaaaacc ttgaccttga 60
gctactccaa attcctttat attaaaaaga cttcaaactg taataattta gcttaaactt 120
taaaagacta gttaattaaa ttcctaaata gttacattct aactaaaaat gggccaaaca 180
tagttttaaa ttaagggtta atgaaataat tgatctcata catacctaaa aaggtagaca 240
taaaatgcaa taatcataca tcatgttttt tatacaacac atgttcacca ttntttaaac 300
aaagccttaa naataagaaa taaaaataga aattcttgta attatttgta aacaacagaa 360
actggaaaat aaactagctt tgggtggt 387

<210> 18372

<211> 399

<212> DNA

<213> Glycine max

<400> 18372

atcatgaagt ctcccttgac tatttcttac aaagtccatc ttggctctct cttcttcttt 60
tcactagact agagaccagg cgacctactc ttctcattgg tgccctcccat ggccttcttt 120
ttacgtggct aaaccacctt aattttctga catcttttcc tcaatcgatg ctacaccaat 180
tcttcttata tataaatatt ttggatcttg tcttttcttg cgtaaccaca cttccatctt 240
aacattctca tttttgctac tcttgcatct ctctctcatc ctttaaagct tagcattcac 300

tattattgtg aaaaattcaa gtcctacatt agctagagat aacgccaaga tagagtatat 360
aagtgggtggc aatccctacc atatgagcta gtttttggg 399

<210> 18373
<211> 294
<212> DNA
<213> Glycine max

<400> 18373

gtcacctgcg gcatgcattt tgagtttttc ttcattggacg tcccgtggtg ttcgtatgaa 60
tcttttgggtg attcttacgg gaagatgggtg atgtagctcc atgtggagct tgtatgccat 120
cgatcttctt catcaatgga gtcctttgct ccttaaagca taatgacatc ggaatggatt 180
tggaacaatg atgatcggag acacctcttc atggagaaga tgaatcaaga agaaaccac 240
caccatagga aaccatggat aagagcttga aggcttgaga acatgaatgg aggg 294

<210> 18374
<211> 350
<212> DNA
<213> Glycine max

<400> 18374

acatggctct ataacttggt ctaagatctc caactgtcac tctaccaat ggtcaactca 60
tattacagag ggatctttgt tctaattctc agtatctcac agtaggagat gtatcagctc 120
tcacttattg tagccatact atggttcttc ttccaacttc tgtcacttta ttgctgggacc 180
catgagtatg gatctacctt ttgtacgtgt tagtacctct gagacttcta tcaatatata 240
atactttcgc tgatcaaaaa aaacacaaaa tattcaccct taaggagaag gaccacttga 300
caagacaaga cattctgggtg gcttctacta cagcataagc ccgaaaacta 350

<210> 18375
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18375

tgtttgttaa acatcttaga aaaaatcaag attttagctt gttcgacat cactcacatg 60

tatgatatcc actcgacaag gtttgaagta gaggagacct tcaatcctat aacgcaacgt 120
ggcggacaaa aatgggcagt taacttgaat ggccattatt gtcaatgcgg aaagtattct 180
gcgcttcact attcatgttc acacattaat atttcttctt tntagtcttt gtaagttcac 240
actaaaattg aaaaaaaaaa cttagaggga ccaaattgaa aaattacaca cttatatgaa 300
ctaaaaatga acaaaacaaa ttccatgcat aaagattgaa aaaaaatgca acttatggga 360
actgaaataa ataaaaaac t 381

<210> 18376
<211> 405
<212> DNA
<213> Glycine max

<400> 18376

gctggaacac agagctgcc a ctcttctcaa gagaaggatg tataatctac agccaaagac 60
tcagaatagg ggggtcattc cgaaacatct cctatggttt ttcaagaagg cgagaaatta 120
caagatttca gtgcaaata gtctcatttg gccgctgaac ctggctctcc acagcttaat 180
tctgaaatca atcagagacc aaaaagggtc actaaacctt ctgaaagata tggttttgaa 240
gacctggctg cctatgcatt acatgcagct gaaaaaatag attcaaata accagccact 300
taccaagaag ctatcaatca tcctgaagct gaaaattggc tgttagccta tgaaagagga 360
aatggaatct ttatataaga atcagacctg gaaacttggt gaact 405

<210> 18377
<211> 372
<212> DNA
<213> Glycine max

<400> 18377

attttcgaat ctcttcttga agctgacatt ctgagcaaac cgggttgaga taatgttgta 60
tacaatatac ctgcatcatt gacaaaagg ggaaattgga tcaatgatac tttctagatt 120
ttaagtaagc gaactcatct ccataatga tagagcagag atgaaacgat tgtaataagg 180
tattttattg aatgtgtgaa taatggaaaa ctgaatacaa accagagcca agctcctcat 240
cagagaacaa actctctcta gctgcctaac cacaagggtg aaagcaaat gaataatctc 300
cccccaatac taattcccac tactctactt attgaaggaa taccctaacc gaatgccacc 360

tcagctatca ca

372

<210> 18378
<211> 431
<212> DNA
<213> Glycine max

<400> 18378

tatacacaac tcaagcttgt tttgctcact ttctggattt gattttgtca caatttttgg 60
ttggtcttaa ccaattaaaa ggaaaacaaa agtgtttcaa tttgtctgcc ttaattactc 120
ttcaatcttt aacaattggg tttggttcta ggcacaagtt ttcgactcaa acttacgaag 180
ttaagtcttc ttttacaact attgtacttc agtcatagtt gtgcacacca tagcactacc 240
atcatcatac tccttgcttt tgttgacgac catctttcaa ggtatgtatt tgatagtcce 300
actcctatgg ttattacatg cttgttgata tatgactatt gttttatata agcatttatg 360
cacattgcga gtgaacctta gtctcctggt tgagattgaa tacgatgatt aatactaaca 420
atttgcttta a 431

<210> 18379
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18379

agagaaggcn tttgaagaat gaatgacnct tttgannca cnnngctcanc gagatcccta 60
gagtagacct gcaagcatgc atatctttgg ctggcttctg agaggggacc agctttcatt 120
gatggtgtaa cactatagga gtcccgactt gtcactcttt cacatatgga tgggccagat 180
ggatctaacc gacaatcagt gggttatcatg gctagcacca taacacagaa aaaaccggtc 240
ggagtgggtt tggctgatgc ctatgacaca ttctaccgaa gatgctacaa agacacaccg 300
agaagtgaca gtaatacacc cgctctttat gtagggctgg ctcttaattt tccctcatga 360
aagacacccc tttcccccta caagcctacg cttgtgctg agaaggggaag ccaataggaa 420
aactcatgca gaccgagaag ctgagtactg gtccc 455

<210> 18380
<211> 383

<212> DNA
 <213> Glycine max
 <400> 18380

cctacaaggg ctatctttat taagcctagt ttaacaagaa ggatctgagg atgaagctag 60
 cattgattca acctaactag gtgatcaagg tttagtaatt taagctacca catataacac 120
 caagacatga ttgattatag aaacatcttt atatacatca gcttggttgt tagaaagacc 180
 cagcacttgt acctactgtt gtcaatctta cttacttgca ttattactct ttttagccta 240
 cactgagggt aattttgact aaaccatcaa ttatcaaagt ttccttcaac acgccctatt 300
 tatgaatcta accctgccta atactagttt cttgagggtcg atacttcgat tcatccattc 360
 taattatata tatccgatga tcc 383

<210> 18381
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18381

ttctttgata tgnccgggtgt gtaaacagcg atatatacac ttattgngat tggcaataaa 60
 tagttactaa cattaactgg ttctcaaatt atatttataa actgggtaaa aatatgtctc 120
 acaatagctt atacatttgt ttgatgccag attattgggg cctggcaaaa acctgttatg 180
 gttattgtaa ctgaacttct cttatgtgga acattgcgca aatatctgcg gagtatcccc 240
 gccaatgtgc tcggatgttc gcgcaacaat tggatttgct ctttgtattg cccgagcaat 300
 aggaatgctt acactctcat gggatcattc accgcgacct taaacctggg attgtatatg 360
 aatgtccaac ttg 373

<210> 18382
 <211> 521
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18382

gcgcgacgta cttaacatac ctttcaaccg gttgtacggc gagatctaga tannnacaan 60
 ncagaagacg aatgaacctt gatgaccctt tggaancagc gacatacaaa tactcagctc 120

tcgggttgaa aaatatgaca ttatccaagc tctatattga ggaccccagg ctctctttat 180
 gggaagagat ttaggctaga ctacttctat tagacactgt attcgttttg gaagaaaaat 240
 tatagcattc tacgttctct actgactaaa ggaaggctac aactccaacg atgtattctc 300
 tagaggatca agcacagctc tccttgaggc tctattatta ctattaaatc ctgataagtg 360
 tccactcttt accaaatact ctgtatttga tgctataatc catgcatgct aacggctcga 420
 ttaaccgtct ctgcgcttaa tttacgtaca tgcttataga gcggccatga ttaaatggag 480
 aatggggcgg taaaccaatc atggaaatca tatgctaaac g 521

<210> 18383
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18383

tttttgtctt anaatcaata ttctttgtgc taccaaataca ctacactcta aacaaatcaa 60
 taagattttt tggagatttg cacattcact aaatttgtaa tcactttata gacggataaa 120
 aactcaacg cttttagttt ttttctctca agttatacaa agtattttta gagtttagta 180
 tctatacgaa gatttacaaa aagctttaca agaaagaatg aaaaaaatat gtttgtgtag 240
 atgattcacc ttcaagtatt ctttgtctca caatagttgg atttttcact ctgctcttca 300
 tctaaagtca agttcgttga agaatttcat gtttacatta catgcacatc ccttcttcat 360
 gcaangttca tgat 374

<210> 18384
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 18384

tcaagaatta tggcctcacc aaactacttg gttccttaag gaaattctat aaataaacct 60
 cccatcttta atggagtggg ttaccactac tggaaaaccc gcatgcaaat ctttatagag 120
 gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctataata 180
 gccggaagtg caacaataga aaaacctaga gcagattcga ctgaggaaga aagaagatta 240

gtacaatata attttaaaggc caaaaatatt attacatctg ccttaggaat agatgaatac 300
 tttaggggttt caaattgttaa aagtgtctag gatatgtggg atacactaca agtaacacat 360
 gaaggcaciaa caaatgttaa aagatctagg ataaacact 399

<210> 18385
 <211> 260
 <212> DNA
 <213> Glycine max

<400> 18385

gagcttgact gtgacctgaa cagcttgacc cccggtacta atactttgtc ttttgctcca 60
 gtccaggtgt acaacatcag ccattaagct tgtaatggct ttgatttgcg aagaatacaa 120
 ggccctgtac gtttgaaaat aaacttggct agaaaaacga atcgtacatt tatgaacgcc 180
 ttgctgtata atgggctgtc agttttttta atgagctgaa acatttaagt ttgtatgtaa 240
 gatgatttga accctgcatg 260

<210> 18386
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 18386

tggagaggat gcttaattgg gtgttaagag agaggggtgag acagagagag ggggcagcat 60
 tgaggttgaa ggaagaacaa tggagagaag ttgatctttg agttgtgtct cacaagactc 120
 tcatttatca aagttacaac aaggggtaca catgcttcta tttatagact aagtagcttc 180
 cttgagaagc gttcttcaga aaacctcctt gagaagcttt cttgagaaaa cttccttgag 240
 aagctcctat gagaaaactt ccttgagaag ctagatctta gctacacaca cccctctcat 300
 aactaagctt acctccttga gaagcttcct taagaagatt cctaaagaag ctagagcata 360
 tctacacaca cctttcta at agctaagctc acct 394

<210> 18387
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 18387

ttgcatgcat tcttctagcc aaatagattt accttgaatt aattcctttg atagccccctt 60
 tgagcctatg tcccccttcc tttgttttga agctcattac aagccttaag tgaaaaacca 120
 tgatatcacc ttacccttaa ggaatttttg agctttggaa ttgttttggg aataagttgg 180
 gaataagtgt tgggggggtat gtttcattgg aagatatgat atttggccat gcttaatgtt 240
 ctattctggc catgcttgat gtatatatat attgcctaga tcttgctgta atcttcaatt 300
 gctggcaaaa aaaatatata tcaattgctg caaatcgtg 340

<210> 18388
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18388

aatatacaat ttccaaattc ggatgtttat taacacagga gaaagaaact gtaaaagcat 60
 gatgaatttc ccgttggcac atagaatcat atcagatata taaacatttg cattaactga 120
 gttgagttat ttcacacaag aaactttttt gagaatttcc tactctaattg tttcggaacc 180
 agttaatcat tctgtacaac tatgtgaaaa tatcttaact catttcttct agaatttcat 240
 tagccgtctc aaaaagaggt gtgggagctt ttaagcttgg tgattttatc tctgctacga 300
 tttctctttt gttataggat cagcagtcaa actgaacttc tcattctttt ccattcttag 360
 aaattctcct attattgaga aaaatta 387

<210> 18389
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18389

ccgtgatcct ctacgccacc ttttgcagc attcttcatt acttcatgat gatgaatcaa 60
 gattgattca aggtgtttcg atgataacaa agatgatgac aaaaagccca agagaatgat 120
 ttcaagattg agtcaagaac aattcaagaa tcaagagaaa gattcaagaa tcaagtttca 180
 agtttcaaga atcaagaatc aagaataacc aagatcaaga ttcaagactc aagattcaag 240
 aatcaataaa agactcaatc aagataagta ctaaaaagnt tttcacaaca ttgagtagca 300
 catgaagttt tcacaaaatc ttttagcaaa gagtttttac tctctggtaa tcgattacca 360

gtttactgta atcgattacc agtggcaagt tttgttttca aaagct

406

<210> 18390
<211> 349
<212> DNA
<213> Glycine max

<400> 18390

tgtaaatacaa attcccccttc tcttcatcct cagttatctg caagtactcg gccgcgcttc 60
gcgcgggccac aatgttgtaa gcactgagag tgatgggttat gccatagcag aacttggcac 120
acagctcaaaa tgcttccacc ccacccggaa aatcacggag tcggactatt tgggtgctgtg 180
gagaatcaga actctctgag cataaccttt gcaggcgcaa acatttggac aatagtggaa 240
actgaacaac atcatgaact tgtgtgacta agcaatataa agattgaaca agtcttgttc 300
aaaacacaaa atggactgag atatacaact tgaagagctt ctaattttc 349

<210> 18391
<211> 343
<212> DNA
<213> Glycine max

<400> 18391

ttttctttgc atgtctagcg agctcttgag agacttaggt cctagcttta catagtctga 60
gagattttgt tatgtgaata tctgctcata ctatagcttg aagaggaagc cgacctgaga 120
gcttgagatg agtttgtgag agattgagac gtcttaaagg tggatgagac atccccacta 180
cttgtattgc tgcaaagttt tatctgtctc tcgtcttcgt tgaaaaggaa gctttccagg 240
gtcggatagc tatatcctct gttggatttt ccttgtaggc atttgacgta aatatctttc 300
tatctatcta atgatgggta gaggcgtctt atgctatcag tat 343

<210> 18392
<211> 328
<212> DNA
<213> Glycine max

<400> 18392

tgaactatgc atactccgct tactaacgct tgtcttttga gctgactttc cttttgccct 60
aactatatta gactggatgat tcctaagctc ttgtccttga ctggtaagaa ccttttttta 120

<210> 18395
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18395

agcttccatc aagtggtaat cagagcacia gagcttcaag taggtgctcc ttaaacctcc 60
 attaattttt tgctttacct tctattccat tgttgtttct tcattttttc tccatgtatc 120
 tcctcacatg tcttgtgata aatgttttta atatgattct ttagagtttc caccaattaa 180
 acttgctata gaagctagat ttgattttct atggttcaaa tttcttggtc ttgttcttga 240
 accatgaatt gtgttgagtt tacgttcctt tgagttttgt cttgttattt ttttgtggat 300
 gaaacctaaa ccataaaatt cttacaaaaa tattaaagta gaagaaaacc tcanaaatct 360
 agagtgactt gttcaccta 379

<210> 18396
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18396

nntaaaattg aattanaacg ctcaataaac tgctggtaat caattaccat ccatgtgtaa 60
 tcaattacac attataaatt ttgaattcaa atttctagta actgttataa acattttcag 120
 ctactggtaa tcgattacca gaaagtaa atcaatttta aatgatttag atagaatttt 180
 ttggccaaac cttttgtttt ttcaatttgg aaacttcttc ctaagattct agagatcaac 240
 ttaatcatat atcttgattt tcttggttcc ttggattctt ctcttaaaact tagaagcact 300
 tgatcctttg gcatcatcaa aacatcaaaa catcttgctt ctacatagga ttcatttgac 360
 ttaatccatc aactgaataa atccttcaac tatttctcat ccttggaataa ttctttttg 419

<210> 18397
 <211> 252
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18397

tttcttccac ccatttcagc caancgagca caggtgcttg ctccataagc aacagccttc 60
 tggaggaagg attcgtaaag cccactgtg acgaaatgct attaccaccc ccctttttac 120
 taactgcacc cccttatatt agtatgggtga gtcataatac gtaacgctac tacacttgat 180
 gaatctecta gccatactta ataacgaacg catacacctg aatccttacg gattatgcag 240
 ctactctatt tt 252

<210> 18398
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 18398

agagattaag atctgagttt gtgatttttt gtgcgcattt ccagcatctt tctatccata 60
 tcagactatg catgattgca gattacatga atggcctcct ctatatatac caggatgaca 120
 ttattcttaa cagatttcca ttcccataaa gtatggcgta aaataaaatg tgtcactctg 180
 accactaatc tttcataact ccatatcgtg gctgggtccat ggagactggg attcagtcgt 240
 gagaaagaca tccctactga ggcatagatc tccatgctgt ccagccttt tgcacaagga 300
 tagtgtaatt aaatgaatac tgccatgcag atcaatatga tctttcccca caatgactga 360
 tccaattgaa taaagaatgg ttacactca 389

<210> 18399
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18399

atctngtggg ctataccttc gaccaaacac tttcgtgttt ctgcctcggc ccaaatttaa 60
 agcgggctgc aacaccggct ccgcttcctt aattgtactg gaggcgggtg ccgtggcttt 120
 atcctctata gttttctgga gttttgacat gacctccgag atggaagcca tttgatcttt 180
 taaggccgat ggatcggcct tcatttggtc ctgcacgccc tcttcattat ccattattct 240
 ggattgagtg ttataggggt gcctttgtgc tttcttagtt atgatgaaat tcctaaagac 300
 ataaacaacg gtgagtatgc caccaaaaca tgaatatgca a 341

<210> 18400
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 18400

aaataggaga gaatgaaaat ttccattcca ggaaaatgat atgataggaa attccctatc 60
 atagagtggg agaaagctaa agaataagaa agatcatttc caaccaaata gtgggagaaa 120
 gtactaggaa agaaaaaaag ctctgatca aggatctgaa ttatctcaga aaaaatgtgc 180
 gaataggtct ttgtaccgga ctatatctgt atactacaga tttgtcacca aatgaactag 240
 acgaacgaaa cgaaaccacg acctgaaagt gct 273

<210> 18401
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18401

tgtttttatt cttagttttg ccgaactgat caaaattcaa atgatctatg gcccttcatt 60
 tttatttctt gagcaaacta atgctcaaac ttggtacttt aactaatctt tggctcttctt 120
 ttctatgaca gccacaaaat gttccaagaa taggtgagtt ggctcttggt ccgctcatgc 180
 ttggggcttc aaatacactg cttaacgctg accattacgg tgtctatttc aaaggaatgc 240
 ctctcttgaa tggaaagggt ggcataccat tctcctttat gtggtaattg ggtatctggg 300
 gtacctgaaa acttaacggt gagtttgtct aatcaggtat tacggaggca tggagatgta 360
 tntgagcgta ctgctagagg atactat 387

<210> 18402
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18402

nttacttcct tggtnctggt tttaattaat taaaaggaac gcgaaaaagt tttgggctgg 60
 ttntgaaccc ttgccttgca agcatgaaag gactcccttt gccactaagc tattgcaatt 120

taattgttta ataggtgcag ttcattgtga ttcataactt ctgtaggata aatcatttgt 180
gcacaaactg tttaaaattg tgtgtctcta agttatgctg aacatgcaat attatgttaa 240
atactgatat gcatcggatt aaatccttta aattttatta catgttgaat gaatatacgt 300
gcaatgttat tttgaattgg tatacatgta atctttatga ttcaatattg agcacatttg 360
cattattaag tatgtttatg caaggattat tttgaatgtt aagtgattaa tataatt 417

<210> 18403
<211> 387
<212> DNA
<213> Glycine max

<400> 18403
agtcttctat agaatgttcg ttcctaattt ctctacaatt gcatcacctc tcaatgagct 60
ggtgaagaag aatgtggcat ttacctgggg tgaaaaacaa gagcaagcct ttgctttgct 120
caaagaaaag cttactaagg cacctgttct agctcttctt gacttttcta aaacttttga 180
gctaaaatgt gatgcctctg gagtgggagt tggagctgta ttgttacaag gtgggcaccc 240
tattgcttat tttagtgaag aacttcatag tgccaccctc aactaccca cctatgataa 300
agagctttat gccttaataa gagccctcca aacttgggaa cattaccttt gttccaagga 360
atttgtcatt catagtgatc atcaatc 387

<210> 18404
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18404
ntgcggattt ggtcttcgct agcgaaatga tcgatgtggg tctaaaaata ggcaaactctg 60
atcatcatgc tttgatacat gcaaaaaaaaa ctggggcaag tgaagaggga gagaatgagg 120
gagaaacca tggtgtgact gccattccta tacaaccaag tttccacta acccaacaat 180
gtcattactc agccaataac aaaccttctc cttaccacc gccagttat ccacaaaggc 240
catccctaaa tcaaccacaa agtctgtcta ccacatttc aatgacgaac accaccttta 300
gcacaaacca aaaacaccaa ccaagaaatg aattttgcag cgagaaagcc tgtagaattc 360
accctaattc cagtgtccta tgctgacttg ctcccatatt tacttgataa ttcaatggta 420

gc

422

<210> 18405
 <211> 374
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18405

ttctngattt gaacctgact tattattgag ttatgtctac tacaattgta taaatcactt 60
 tacgcttgtc caaaagtact taaaaatgta tgctcctgtc tgtttttagg tgggtactgtt 120
 aatgagaaac ctgtgcatga ttttaactag ctgagatttt tagcatcatg taagtattga 180
 tgggtctgacc tttagattgc tataaatatg taacatgtca tgctgagtaa ttgtctgcct 240
 tgtataagca ccattagagt tcatttttgg taaagtgtta tcttggtttt tgggtctgtaa 300
 atatgtagta tgtcatgctg agtaattgcc tgacctttat tttattaaat ttgctcaaca 360
 ctaaactatg atgc 374

<210> 18406
 <211> 364
 <212> DNA
 <213> Glycine max

 <400> 18406

atggctgcgc aacagctctg atttcgtgag tatttataga agatgacgca tgtgaatcga 60
 ttacaggaat tgctaatega ttacaggccc aataagcctt ctgggttatcg attacaagat 120
 gttgtaatcg attacaggct ggctgttcat gtgtaatcga ttacactgga tggtaatcga 180
 ttaccaaagc ctatcctaag ctatactcta ataaaatata tatattcatg ctcaaataca 240
 tcctatctga ctaattatca ctactactac actaaatccg atcatgtcat tactatatac 300
 aactaaatc ataacttcta tcatcaatac aagaatgcga acaagatcaa tcataataat 360
 ctac 364

<210> 18407
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18407

ttcttctaac aatttcatgt attattacgt gtttaacata tttattactc attgttttgc 60
cttttgccgt aggatatgat gcaatcctac ccctcaaggg cattggatag aagactccaa 120
gaagattggg ccagagatgc aagagaaggc cctaagattc tcatgagccc tatggtagat 180
tttgggcccc tggactaagt atgagccac ttatctttgt acatattaga ttacgatttc 240
attattttta ggccttgtat ttagagctcc ataatgtang tagggtagcc tagaaatgta 300
ngatttttca gcccttgtat tttatggcac ctagactagt ttttgtatta ngggaagtt 360
tgaatttcac atg 373

<210> 18408
<211> 408
<212> DNA
<213> Glycine max

<400> 18408
tttctcatag atagcgatgg atgtatagtt ttttgattac atgcataaga gaaatgaaac 60
aaaataaaaa gaaagaaagg aaaagaagga ttcccgatca aagatcggaa gaaagtaaaa 120
aggaaaagat cagaggaaaa cagaataatt cccgatcaat aaaggaaacc aagaaagaga 180
acagaaggtc ttcggaccag ataaattttc agcgaggtaa atgaccgccg acaaagggaa 240
aaccatttc aaagtgggtc ttcctttgtg attgccattc aaggtcgctc ccaactggcg 300
atgtcccgcc ccacataaac aaagaggaaa agaccgaaac acccagtttc ctctccaaaa 360
aactaccct cgagaaaatc ctattgatcc gtgatcgcg gtgtaatc 408

<210> 18409
<211> 323
<212> DNA
<213> Glycine max

<400> 18409
gatcaaaaca aaatctatac attctagtcc actcaattca tacaattact cattcaaac 60
aatcacaaca cttcatttca tacaaaacaa accactgaat atcatattca atcagttcac 120
tgttcaaaca tacttttgta caagctacta ctacaaacaa aataactaaa agttataact 180
gaaacttaaa taactgaaac ataatgcata aacaaaataa actgagtaaa ataaactgtt 240

cacaatgaga aaaagaaaag atcttatcaa tcctcctatg gatgatcctc tgcataactca 300
ttaagatcca acctggagca act 323

<210> 18410
<211> 404
<212> DNA
<213> Glycine max

<400> 18410

ttgacttgag tcatcacaag atataaatat gcgatcttgg catggattgt ttaaaaaata 60
acaatcaaga aatctatctt tcaatcttct ctctcaacat cattcaactc tttcaacaga 120
ttgtttctga ttcattcttct ctctcatctt ctaaaagttt ttgttcaaaa ctttttcttt 180
caagaaaagt tctttgataa aaaacttggt ctattaatct ttttcattct cttctccctt 240
tgccaaaaga acaaaggact aaccgcctga attcttttgg gtctctcttc tctctttcca 300
agagaattca aaggacctcg cctgagaatt cttttgatcc ttcccttccc cttaaacaaa 360
agatctcaaa ggactaaccg cctgagatat cttttgttcc cctt 404

<210> 18411
<211> 340
<212> DNA
<213> Glycine max

<400> 18411

atctttcttg agaagctttt atggaggcta gatctttgag ctctaattgat gtccttcaat 60
ggcgaatttt aaccatggag ttactctgga agataaagga gaaaatatta tatgaggcgt 120
catccaccag gggatgagcc atggaagaag aagctttacc accaagataa tgttttggat 180
aagaagctta aagaagaagc tctattagag gaagagaatg agagagagag agagaaagtg 240
gcatgggaat gaacgacagg tacggagaga agttgaacgt tgaagtgtgt ctcaacagac 300
tctcattcat caaaattacc acaagtggta cacatgcttc 340

<210> 18412
<211> 403
<212> DNA
<213> Glycine max

<400> 18412

tctagccaaa tggacttacc ttgaattaat tcctttgata gcccttttga gccttggttc 60
 cctttccttg ttttgaagct cactacatgc ctttaagtga aaaccatgat attaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
 cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
 acattgtata ttggttaaata gttggacatg ttgaatgaaa tgttgtttct caaaggctaa 300
 agagtaaaaa aaaaaaaaaat cgaataaaga aaaagaaaag caataaagtt gagtgaataa 360
 gatcttaaat ggcacaagaa tgatgaaact cttggttcta ctc 403

<210> 18413
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 18413
 agcttgtagg attatggtgt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180
 ccccatcaat cctccaagc ttccacaaca tccaagcaaa acaacattca aacagcataa 240
 gctatcacgg ccaagcaaaa cagagcaaaag gcagaaaact ctgccaaaaa aaaacccaac 300
 caaatcacag cttttctcac ttaaagatcc cagtaacaat tccctcggtc cggttcatta 360
 accgttggtat cgact 375

<210> 18414
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 18414
 ttcttaagaa aacttccttg agaagcttct ttgagaaaac tttcttgaga agctagagtt 60
 tagctacaca caccatcta aaaactaagc tcacctcctt gagaagcttc cttgagaagc 120
 tagagcttag ctacacaccc ctataatagc taagctcacc cccgtgacaa aaaaacatga 180
 aaatacaaaa aaaatcctac tacaaagact actcaaaatg ccctaaaata ctaggctaaa 240
 accctatact actagaatgg ccaaaatata aggcccaaaa gaagaaaaca acctattcta 300

ctatttaciaa agaagagtgg tcccaacctt ggcccatggg ctcaaaaata taccctaagg 360
 ttcatgagaa cctaaggcc ttctttatca actctagccc aatcctctt 409

<210> 18415
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 18415

tgctttaacc tcattgtctc tcacagggac tagattttgg gagccaatcc aatccttgtg 60
 ttccgactct cagacactta tgagagccgc cgatgatccc attactgatt cccctaagct 120
 ctctgatctt gcttcacgac gcatcccatg ccttgcaac tccttggaaat accctcgctg 180
 tgtggtaact gaaaccccg cgcgatgaaag gcgtgatgct atcgctgat ggcactcctc 240
 tcatggggg 249

<210> 18416
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18416

tgtagtttc agatgatgca gctgagtttt tggtacctc atacactcct ntcatgacta 60
 taacagcatt tctggcgcta aactactacg agttgaaagc catcttctcc attaaatttc 120
 tggcttcctt acgaatcatg tttccaaggg ctccaccact ggcagcatct atcatacttg 180
 tctccatag actgagacct tcataaaatt attggagaag cacctgctct gaaatcttat 240
 agtgaggggt actgacacat aaatttttaa atctctccta gtattcatac aggctctctc 300
 cactgattcg tctaatacct gagatatact tcctgatggc tgcggctctg gaagcaagga 360
 aatg 364

<210> 18417
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 18417

tgcattctta tccttatggc ctgcctccgg acttcacccc ctgtgccacc ccggaagatt 60
 taagccaagc ccctactttt gaggggcaac tcctacctta tgaagactat cccgggcaag 120
 acgatgggga aggagatacc catcttggcc ccctgctcca cctcaaagat ccatccccgc 180
 atgaactacc ccagctgaac atagtccgcc atatccccgc ctcatccgca cccgtaaaag 240
 aatctattcc ctttgcgga gataaggga agattgaagc gctcgaagag aggttaagag 300
 cagtcgaggg cctcggtaat taccattct cagattggca gaattatgtc ttatgcccga 360
 catcgt 366

<210> 18418
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18418

tgccctcanag aggtccagga aggacaaggc ggccgataga actagttccg ctctgagta 60
 tgacagtcac cgcttttagga gcgccgtaca ccagcagcgc ttcgaggcca tcaagggatg 120
 gtcatttctc cgggagcgac gcgttcagct cagggatgac gagtatactg atttccaaga 180
 ggagataggt cgtctgcggt gggcatcact ggttaccccc atggccaagt tcgatccaga 240
 agtagtcctt gagttttatg ccaatgcttg gccaacagcg gagggcatgc gtgacatgag 300
 gtcttgatg aggggttagt ggatcccgtt tgatgtagat gttatcggcc agtcctgtg 360
 atatctgttg gtgctggaag agggccaaga gtgcgagta 399

<210> 18419
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 18419

ttcttgagg gattgatggg gacccggtgt tgagaggaac gaggataagg gctatgtggg 60
 agtacgtgag ctcaagtgaa ggtgggcaac tggggatggt ggatttatgt gtgatttgtg 120
 gacgtggaga gtcgacttgt accatcgccc gatcgccacc tagtaccaca tgtgacgggt 180
 acccataat cctacaagct tgaagtgagg aagtgtggaa gggtagact tcctactttt 240
 attcgttgac cacagagtgg tacctggaga tatgtcgcgg gggtaggag accttgggga 300

cgtcaggtgg ggtgctattg cccaaaacca agcttgacca atcccgaccc aaccgggca 360
tagtcagtca gtgagaacct gtgac 385

<210> 18420
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18420

gggttacctc cttcactaca tcaagaatca ccgagttgac tcttctatgt ggttgtctta 60
ctgggttagc cccatcctct aaatttatcc gatgcataca tgtggatggg gtaataccag 120
gaatgtccgc caggggtccag cctatagcct tcttatgctt cttgagaact gataacaact 180
tctcctcttg ctcatcagca agggaggcat atataattat tggaaaactt ttgctatcat 240
ccaagtaagc atattttaaa tttgatggta gaggcttcaa ttctggtgtg ggcggctgga 300
taatggtaga aagagatggg ttctcagcct gtacctcata aagaaagtca gaggtatgtg 360
tacttctga aacatgggta gttctatctg actctagana atctatctca ag 412

<210> 18421
<211> 351
<212> DNA
<213> Glycine max

<400> 18421

ttcttccaaa ttagtgtacc aactaccgc aactccggcc aagctatcct gaaagaagtg 60
tattaatagc ttttcatctt tagagtgggc gcccatctta cggcagtaca tcttgagatg 120
gtttttggga caagtgtcc ctttatactt gtcgaagtcc ggtactttga acttcggggg 180
aataacaaca tcgggtacta agcaaagatt cgtcatgtct gcgaacggat aatccccaaa 240
tccttcgacg gccctcagtc tttcctcaag gagatcgagc ttcctccttt cttcagttgc 300
tggaggcggc ccttccgtgg acaaaactat tgggtggtgct gcgatgttgg g 351

<210> 18422
<211> 416
<212> DNA
<213> Glycine max

<400> 18422

tcttatggac cttgaacaag caattaactc ctctttcata accatgctat gtgctcgga 60
ctgggtctctt tcttccttc gcaacttgag ttactattg ctaccocata gagctccgag 120
aaatttggtc eggccatact ctcccttgag agccctcttg gtctcttggt caagggtctt 180
tgcagtaatt gcattctctt cccgtaacct ggcacactcc ttccgaacgt gtgtagcggc 240
caacttgaac ttctccttg caagttttgc ctttcctaac tcgcttttga gagtttggac 300
ttcttcgtcc tcttcgggtg cttcaaaact ctcttcgctg acgactttta acttggcgag 360
ccaatctaaa cctcgtatat gaactttcat ccattcgtgg taccacaaa tgatgc 416

<210> 18423

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18423

atcttataat gaattaagat taggggtgta ttttgtgatt ttgtaaaaat aataatttaa 60
cagagtcaaa gaattacaga gcttgtcttt tgtcagtgtc tgtagaaat aatggcactt 120
tggtgcgttc ttgtttcatg ttaataaact attttttatt agcaataaaa gtgaatctct 180
gtgtccctac taaaatttaa caaagcta attttgtgtat cttttccttt tttctttctt 240
ttgaagtaca attgtctttc ttatctggca gcaatcagta ttggtattaa cttctgatta 300
aattgttcca tgacaatcgt gctgcta atg ctgacagggc aagctaaaac ancacacaac 360
ctgttctca agtctcaaa t 381

<210> 18424

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18424

tgacaanata gggaaagaac atcagaaatt tgttcttaga gttattgaag aaaaagtnta 60
gttatatgga tcaagatatc aaagaaagat gagaactatt tttataagct tttcaaggat 120
gggtaaggat tgacctgtaa gatggaagga ttagaatgct aagaggacaa acaaattctg 180

acttattatt gtggattttg agttggagaa gtgaaagaaa cctgttagaa gatgaataat 240
 ggtaaagttg ttggtcctat tggttcagag aatttagttt ttaacagaat ccaatggcat 300
 tgtgtgatct gtataaccca caaaaaagtg ctttgtaatt gatggatcct agaaaatcca 360
 atggcatggg caagtttgca acaacaatgt atagatgtca aag 403

<210> 18425
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18425

gacatagtca gatcctgaaa tactagtggc gacgatgcct tagttacctc taggcagcct 60
 accataactc aactctcata caatactctg catgatagcg tggetgttca atctctactg 120
 tgtctcgagg aggtatcaca ccaataagtc tctgcaccac tctgacactc agatgaatgc 180
 ttactacagc acataaaaaac gcagacaggg agaactctct ctcattggctg acgacaagct 240
 atagagagtg atgcagaaca caggacgatc ggtaactcac attctgggtc gcttagccga 300
 attacgagca atagggctac acgccccttc tatctaaacc atgaagtgga agcgagcact 360
 an 362

<210> 18426
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 18426

tccttgatgc gtcttttcga caagctatat acaatatcta tcgacacccc tctaatatct 60
 aaagcaacct tcttgaaaat taaacacgca tcattataca cttcattatc tagcgagcac 120
 caaacattat tgctgataat atcttatggg gctacactgc tcccgcattc tatctgtgct 180
 gatgactatg ctgtaatgga cagttgaaga agatgcagat cttcccttaa ttttgggacg 240
 tgcattgatg tcta 254

<210> 18427
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 18427

atTTtgcttg tggatcttct atggnggctg gatctttgag cttcaatgag atccttcaat 60
ggtgattttc caccatggag atgcagcgga agacaaagga gaagaggtga gaagaagcgc 120
catccactta ggaattagcc atggaagaag gagcttcgcc accaagatga gccttggata 180
agaagcttgg acagaatgct tcaatggagg aaaagacaga gggagagaaa gagagaggcg 240
gggggggggc acgatattga aggaataaaa gagggagaga agtggaactt tgaagtatgt 300
ctcacaagac tctcattcat c 321

<210> 18428
<211> 373
<212> DNA
<213> Glycine max

<400> 18428
tcaatcatga tatgtattaa aaagtttttt caaaaactga gtagcacatg aattttttct 60
caaaaccttt taccaaaaag attttactct ttggtaatcg attaccagat tattgtaatc 120
gactaccagc agcaaaatgg ttttcaaaaa aaaatttcac actaaattta caacattcca 180
attaatttca aaatgttgta atcgattaca agtatttggg aatcgattac cagcgtgttt 240
gaacgttgaa attcaaattt aattgcgaag agtcacatct tttcacaaaa atgctttgtg 300
taattgatta caatgatttg gtaatcgatt actagtata agttttgaat gaaaaatcaa 360
aagatgtaac tct 373

<210> 18429
<211> 366
<212> DNA
<213> Glycine max

<400> 18429
ttcttctct acccggggaa atatattatc ggccagtgtt tttaaaaaga attgcgcaat 60
gtcggcagaa aaatatcagt cgtggctata taacgaccga tgtcaggat ttttgtttca 120
attcaatccc tgaataattt ttggatattg tccaatagga aatgttcgat cggcgtcatc 180
acgtgatgct tgctttttat tttaaacctg ctggatcggc catctttctt ggccgacatc 240

gactatcatt ttttttatca gtgacggtga ataatgtttt ttggccgagg tgggctgatg 300
 tttttctagc cgagtaaattg agatcacgcc agtgtcgggc gaaacacagc ttctgttgag 360
 ctgcga 366

<210> 18430
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 18430

tctatataag ctgaaccatt ttatcaataa acacattttg agttttattc agaaaattag 60
 agttcatctc ttttatctta gagagagtga ttctcctaaa ttcttgagtg attcaagaac 120
 accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgct ggaaagagtg 180
 attctttcct tcctttcacc ttcacccttg ttctttcaaa tcacaattcc agaaaattca 240
 cccctgcca gaattatctc gtggccataa ctcccatttt acgcactcaa attaagtgat 300
 tcttgagcct aaattgaatt tcaaaacgat acctttcacc tcgttttgga atcacctcat 360
 ttggagccct gtagcttcag ctattgccag ttctatattt ct 402

<210> 18431
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 18431

atcttggacg aataaggttt gcacttagga aacacaacaa caaacaggta tgaaaatggt 60
 cattttttat tagggttgat gaattcatgg attttaattg ttttttgtgt atttgaaatg 120
 tagggttgaa ttgctcatt gttatttggg atgccatgaa caacatgata acgctgcaac 180
 aactgaagt taaggcatcc tttgagacaa atacacatgt ggttgtacat gtttttaaag 240
 ttaccttata caagaggcta cttggcatgg tatcaaggta tgcttttaat cagattgctg 300
 ctgagtatgg ccgtgcacat tatgctggaa aaaaaccctt ctattgtgg atgtgtgata 360
 agaactacc 369

<210> 18432
 <211> 399
 <212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 18432

tcaatggaac ttacatcatg tggatatcaag agcatcttca tctangtgat gttcttttgc 60
 ttcctctatc tttttgttcg gtgaattctc ttttaattcct tgttcttcat cttattctcc 120
 atgtatatcc tccatttctc tgtgggttgg tgctgtttag agtagattca aaaaaaaaaa 180
 atcgattaaa tcttagatct acacttgttc ttgtatttct atgggttcaaa tttttagat 240
 ctactcttga atcatgtttt tgtgttgatt ttaggttcta tcatttttca ttcataatat 300
 tcttgtgctg aaccttagat ctaaagtta ttccaaaata ttgattagaa aaaaaaaca 360
 caaaaatcta agtgtaaata acttaatcca tgttgtctt 399

<210> 18433
 <211> 264
 <212> DNA
 <213> Glycine max
 <400> 18433

ttacacatac ttgctgatct atatttcgat tctgcccttt taaagactgg cattttgatc 60
 tttgggacac atgagaatct agtgatcttt atcgaggctc ttgggataat atccgcatgc 120
 aattcatcaa cgataagcct acttgattat agagttagat acattaaccc cataacacat 180
 gtaaatattg ggtatactca ttttgagggt tatctcaatt attttcatta tataaaatgc 240
 cctatactat atatataaga atct 264

<210> 18434
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 18434

tggctcgaga tcaccggttt gtctgtcacc tccacatagt tgtgaggggg agaattatta 60
 ggtcttttgg gttatcttcc tatgtggagt aaagaccac ataagaaggc aagtatgtct 120
 cacttattta agcggagagg aatcatatta tagagtgaga cacactgaga gagactcatt 180
 tgagagggaa aaaaatctat cgagagagaa aatcattggg atgttcgtat acctaccgga 240
 gagcgttttt tagattgcaa ctgcggattc gatcaccgtt ggatcggggtt gatttttggga 300

caacaggttc tacacacttg aaacttcaaa ttgtttggct ggatcgggaa aaagatatct 360
acagagagag ataactattg tacattatct gctctatatt tt 402

<210> 18435
<211> 388
<212> DNA
<213> Glycine max
<400> 18435

tttgcattgca ttctttgcag agactgctcc atateccaac aagccatcac tgctccatg 60
gcatgaacac ggacatgctg ctgcagttgt tctttaaagg cacagagcaa cagaacataa 120
tggttctgca acaaacaaaa taacaaaact cataaaaaac aagctcttca cattaacatt 180
taagcacatt aattaagaat gagaaacaaa acccatcaaa aggacaagaa ctgagaagga 240
ctatgtaaat acaagtgtaa ataaacccca agatgccaaa cttatataaa tgtccctaca 300
aagttaacaa aatgttatag tgattcagta ctccaatcat tatatgtaga gtggatatta 360
agtcagaatc aaatcttaac tttaatat 388

<210> 18436
<211> 417
<212> DNA
<213> Glycine max
<400> 18436

gacctatgaa actcagctat gaccaccct gccctttaa aaccctttg ccaattcagt 60
ggagaccaag gggatcatgaa gtggattcaa ctaggactcc ccgtgattac catatagctc 120
tagggttacc cttttatgac tactccttgt atagtaggt aagattaata ggtaaatata 180
tgtatgaaaa aaaaaatagc cattaaaact aaaatattac aagattttta aattaattat 240
aaaaacttct aaatatatct tcatcaataa gataacatta aaaatatata taaatatcat 300
ataaatatct atttttgta ttccgtatct atactagata ggtgttttgt tagggcaacc 360
aagtacttat tggatcggc ctcctataga gacaaaacaa ttatgcttat gagtaat 417

<210> 18437
<211> 360
<212> DNA
<213> Glycine max

<400> 18437

tgcttcctta agaagattcc taaagaagct agagcttagc tacacacacc tctctaatag 60
ctaagttcac ctcccttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
aagctcacco atatggcaaa aaaacatgaa aatacaaaaa aaaaagtccc tattacaaag 180
actactcaaa atgccccgaa aatacaaggc taaaacccta tactactaga atggccaaaa 240
tacaaggccc aaatgaagga aaaacctatt ctaatatatta taaagataag cgggctcata 300
cttagcccat gggctcgaaa tctaccctaa ggctcatgag aaccctaggg ccttccttg 360

<210> 18438

<211> 401

<212> DNA

<213> Glycine max

<400> 18438

tgtgaaagca ttatatgggt tgaagctagt tgtaatagct tggattgaga gactaagtgc 60
attcttagtt cataatgggt tctctagagg aatagtagac actacactat ttagaaagac 120
tcgtaaagag gatctgctaa ttgtacagat cgatttatgt agataacatc atctttgggg 180
ctactaaaga aataatgtgc aaagagggtt atgagctgat gaaagaagaa tttgaaatga 240
gcatgatggg agacctaag ttctttatag gacttcaaat cattcaaaaa tatcatgaca 300
tttttatcca tcaagagaaa ttcaccaagg accattcaaa gaggttcata atggatgaag 360
ctaaaccaat agctaccct atgcatccat ctactgtcat t 401

<210> 18439

<211> 325

<212> DNA

<213> Glycine max

<400> 18439

ttcttgcaat ttctgggagg ctttgccaaa gttttcttcg tggttggtca tgtgctcacc 60
ataactctct gtttgcttcc gtacatctga gggatctaca tggtaaaaaa ctgggaaaac 120
aagttgtttc atctcactga tcttggaactg ctccaggatc ttaacaagtt catcaaggca 180
ccatgtggag gatgcgtagt tcttagaaaa cacaatgatt aaaatcttag attcttcaat 240
ggccttggat agagaagggtg aaataacatt cccacccggc aggtccctat catcaaagaa 300

aattttcatc ccttttccgg acaac

325

<210> 18440
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18440

tatattgcta gtggaagtga ggattcacat gtatgtatct tcaatcatca ttgatcaaaa 60
tgggaaaata ttgccagtg taatatttta taatttgcaa attgaaagcc ttgatgttta 120
tatgtctctg ttaaatgttt tttatttgct aattttttat tgctgggtca ataatttggt 180
aaaataagtt caacatgcac ttgatgcagc ctatcgagga tcaactaaaat attggcataa 240
aagacccatg aaatgggttct ttgtgggtctg atttactgga cttgaatgaa ttgaactaca 300
aattgttata atgttcaaga gttacgggct tctgcaatat tattctagtt tatcttgata 360
aaactangaa catcttgact gataatgctg gaagtc 396

<210> 18441
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18441

ttctngccta attaacctga aattgagaga aaatgattat gaaacacata aaatgaaaat 60
actaagtatt tattacctat acttaacaga aaatacttat aaccttaca aataaccata 120
aattgggaga gtttgatata atttatacaa gtttcataca caaaattagt cattttcacc 180
gactaacaac tcccccaaat ttacagtttt gcttgtcctc aagtaaaaag agaacaactc 240
acttgtcctc aagtgacaat gacatgcagt gactatgtac aaaggtgtat gctacaaagt 300
gactgattgc atgataagag aatggagtaa aatgccctta tcaattgtct ttca 354

<210> 18442
<211> 390
<212> DNA
<213> Glycine max

<400> 18442

ctgagatcca tagatcta at gcaaggtata tgtttcatag aagggtttc gttgcttg 60
 ttgggttgatt ccagagccat ctattccttt atatcctgtg tgtaagtaga aaaacttaag 120
 cttttctgtg tcttctttaa ataaagatct agtgggtggag acccctacta gtggctatgt 180
 gataacttct tatgtgtggt tgaaggtcc tgcggagatg tctaggagaa cattcttgat 240
 tgatttgatt tgtttgcctt tgaaccagat tgatgttatt cttgggtgtg actggatatt 300
 ttccaacat gtcttgtaa actgtattga taaaagagt gtgttcgat attctgtatt 360
 cgagtaagat atgaagttga tctctgccaa 390

<210> 18443
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 18443
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 tgattttacc aacatcattt tctgaaaaca caaagctacc ggatatatcc catagctcca 120
 cagtcacctc atcatgcaag gtcacgaact tgacaccagt aagaatgaga ttcttcacag 180
 cagacaggaa gtaaacctta ttagaattca aaaacatgat ttaaaattat agagtttagca 240
 ctatcatctt taaagcttga acctaaatat cacaaccatt aaacaaaaaa tcaagtcaca 300
 cacaaatgat aaactataa cctaagttaa caaaaaaaaa ttacaactgt caactggtaa 360
 tcaagggtta aaaaaaaaaag tctgcaacat 390

<210> 18444
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18444

tcttggttgt ggagttctgc tgaaccttg atgtaacact ctttactat ctatttaatg 60
 ttatttttat gggttcattg cttctaacta tgcttatttt acatacttat ggcttgatca 120
 cccatttgta tgtatagtta ggatttttag cattggaaaa tgcttttaaag ccttagaact 180
 tggtagagca agctagaaat ctgtatgtct aggaatggag tatagtgate tagttcatat 240

tatgtttag acttaatgca attcttttag actaagttt ttgagggatc aaggacgaag 300
 ttanagaga gttaagctta ttcactagag ggatcttggt ttgagtagtt tctcagcata 360
 agaatactat gataacgtta aatagagaat aatacacatt atcatcaaga g 411

<210> 18445
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 18445

tttgatttga tactgcttcc ctcatcatgt ggctcatgat gtttacaatt taatgatcct 60
 ttgctaccct gcaatgagac acacacaaat acacaaacac acacacatag agacaaacac 120
 acacacacac acacataaag atacacacac acacacacac acacagagtc acacacacat 180
 aaagacacag acaaacacac tgagccacag acacacacag agaccacac acaaagacac 240
 acacactgag tcacaaacac acacatacac aaacacactc acacacatag acagacatac 300
 acacacataa agagacaaac acacacacac acacacacac acagataaag agacaaacac 360
 aaacacacac acccacacac ag 382

<210> 18446
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18446

ctatagacaa ctcaagcttc atgcatgtat gtaacaattn ttgctattga ctatattaaa 60
 ttgaatatca attcaattca ttgaacataa gccttactta agattgttgc ttgtcaagtc 120
 gtccaatga ctatgtaatt aagcgctgca acaatgatct tgtgatacaa cgtacaatat 180
 tttgtaagca ctagggagta gatgcctcct agattcaatt atactttatt cctcattttg 240
 actttcatcc ttgataagct tgatcatgtc atcaattcga aggatagtag cttcagttgc 300
 aaactgggga aataaaaaaa cttcatgctc atgcagttgt gtaaggaagc tgtatattga 360
 agtcaacaat tgttgatatt taactaaata catacctgaa taatttttac tttgctcatt 420
 gcaggctcaa tgactc 436

<210> 18447
 <211> 320
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18447

agtcttncat cactccgtga caaaattaaa cttccaaca tccctaaatc atcttaaaca 60
 tagccagacc tgcataaaaa atccccgaat tgagactcaa agaagaagct tgatgaactt 120
 gattttcaaa gaggaagagc attatcaatg agacttagcg taggtgtcat cattgttgtg 180
 atcatgaagg tgtcacgtgt agaagcatat gtaatatgaa gttttgatga tgccaaagat 240
 gaaagctatt caagtttgat ccaagtcaag aatcaagaaa ttcaagagga acgatgaaat 300
 tagtccatag gatgttaaaa 320

<210> 18448
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18448

taagaaatct atatatgggt tanaacaagt gccctgttat ggtaccttaa gtttcatggg 60
 ataatttctt catttggttt tgataaaacc ccatggatca atgcatatac cacaagggtta 120
 acgagagtaa aatatgtttt cttgttttat atgtaaatga tattttactt gcagccaatg 180
 atcggggttt gctacatgag gtgaacaat ttctctctaa gaattttgac atgatgggta 240
 tgggtgatgc attgtatgtc attggtatgt agattcatag agatagacct caaggtatgt 300
 taggttcac c ataggaaacc tatattaaca aaattttaga gagattgcag atgaaagatt 360
 gttcactaag tgctgctccc attgtgaagg gtgataggtt taatcagaac caataccba 419

<210> 18449
 <211> 324
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18449

gaaacttctt tgagaaactt cattgagaag ctagagctta attacacccc cctttaataa 60

ctaagctcac ctccttgaga aggttccttg agaaactttc ttgagaagct tcctttgaaa 120
 acttccttga gaagcttcct tgagaatatt cctagagaag ttagagctta ggtacacaca 180
 cccctcta at agctaacttc acctccttga gatgagaagc tagaagttag ctatacaoct 240
 cctataatag ctaagttcac tcccatgccca aaatacatga aaatacaaaa acattcctac 300
 tacanagact actcaaaatg ccct 324

<210> 18450
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18450

gacattctaa cttgttntga aggttttggtt aaacttataa gttttttttt tatggataaa 60
 tgcttacgag tctacttaca tgatctagtt gatttgaagg cttaataata atgagatcat 120
 gattttttat ttttctaaat attcattata gacttaattt atgggtgcat ctttaactta 180
 ccatcactta tgactatcac ccaaaaaatt ataaccaaga ttatattaca tattactttt 240
 catcaaatca tgtttgactt gaataagcct cacttggtta aaaaatctaa aatcaaagac 300
 catcaagtat ttatcatata tttcacttgt taggcttgac ttaatcattc ttagcttata 360
 tagttatgta tgtcaaacta cttgttaggg gttggacttt caaataggac aaatcat 417

<210> 18451
 <211> 353
 <212> DNA
 <213> Glycine max
 <400> 18451

ttcttcatgt atgtaattgg taacagtact aaagactaaa gagtgaagag tagtggttta 60
 gtgggtgcgg ctcgagagag aggaaagtaa aaggggctat agaattgtgga tgtctacggt 120
 gggccacgtt acagttaaag tcaattggga ccgggtgttta aggagcgatg attacgggtt 180
 ggattctcaa tcccatttgt gtcgtttctg ttccttcac attcattcac tgcaacggat 240
 ccagggaatt gttactatgc caataccctc acaactccaa actatattaa taatcaatta 300
 aatcttcctc accctaccat tacacacccg ctcttcacca taataattat tct 353

<210> 18452
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18452

tgtactctac atcctgtgat aacataataa gcaaattctt actaagtaga ttaagtctct 60
 tactaagtaa atgcttatga atccctacta ctaccatag cagtgaatag attacaaatt 120
 ttcaatacca acttggtaaa tgcaaagata aaactatata tagttgttga tgtttcatct 180
 caaaataaca ctaatcacac aactttgaac attaacattt tcaggtatca ataattgata 240
 tcatgaaacc ttgacaaata aataatattc tttccaccaa ttatcatggc ataaaaaagc 300
 ataacataaa ataaatatca tatttaaagt ttaaatttgc tgaatgtgaa tggaaaaggc 360
 taattaccat cttntcaag gttttctcga agcttctaga t 401

<210> 18453
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18453

atcttgcag cgtttcatgc aaggcttttg ccatgaacag gcttcgagtg tgcattgtct 60
 tctctgttgt acgtgttaca acaagaggca agtgatgagg acattgaagc tcaaggattg 120
 acaacaagga ttaggaggac ctatgactag agccagaacc agaaaggcag aggagaccct 180
 acaacaagt gtagcaacca ttcttgaagt tgcacttgca ataaagaaca ctgaacaaaa 240
 attattccaa tacatgatta ttattgaaga cccatgagct agagggtgtt gatgctaact 300
 ttntattttt attttttttag aattaaataa agntgtattt cttttatttt attttcaatt 360
 ttcttttatt ta 372

<210> 18454
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 18454

tgctttagg gcttctatgg aggctggatc tttgatcttc aatgggggtcc tttaatggtg 60

attttcgacc atggagatgc agcggaagac aaaggaaaag aggtgagagg aggcgccatc 120
 cattaaggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttggagg atgcttcaat ggaggaaaat aaagaggag agaaagagag agggggggagc 240
 acgaaattga aggaataaaa gagggagaga agtggaactt tgaattatgt ctcaacaagac 300
 tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga ctaggtagct 360
 tccttgagaa gctttcttga gaaaacttcc ttgagaagct tctttga 407

<210> 18455
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 18455

ttgcaataaa cgtgttttca tgacaaatgg aacgaaaatg aggttttgaa aaggtaaatt 60
 gatgacactc cttttttata ttctcctaatt cttctttata aatttttgaa atatgatgaa 120
 ttatttactt tctattattt attctttcgt ttttctaaaa ctaactctct tttttaaatt 180
 aaagtatttc acccaattat ttaatctaca aaagcaaac cattaaatag ttgttcaaaa 240
 cttcaagatt atacattttc ctgtattttt aacacaatat tatgtttgaa ttttaattctt 300
 attttaatat atcttattct ttatgcgaaa aaaaaaacat aaaactcatg tctatat 357

<210> 18456
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 18456

taccacctcg tgatgccttc tggctttgga ctttctctta tatttatagt cctctagctc 60
 aaggagggct aaccaccctt tgtaaatega aagagacata gatcattccc ttgtttggaa 120
 cgatccatca tcgctatatg ctaactatca atatgaacaa ctttatttta atttatttca 180
 aactcttcaa ttagattatt catgaatgtc aatcgtcaaa aactaaaact cacaatttca 240
 agatgaaatg cctaaatgta aaacgatcaa atgaataaaa tcatgtgcct catgatagtt 300
 ctacatgtta tcataagatg cattaccaga acaactcagc atgaagttac acacacaaca 360
 tgcatacatg tgtatatata tacaactctt aaaaagaaac a 401

<210> 18457
 <211> 407
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18457

cccgggatcc tctgagccgc cttttgcatg caatcttgta gggttaaagt ctcactattg 60
 tcacgtgctc atgcaacaat tgtagccat ggctatgcga gacatcttgc caaacaagt 120
 cagggttaacg ataactogcc tgtgcttttt cttccatgct atatgtagca aagtcattga 180
 tccagtaatg tttgatgagt tggaaaatga agccacaatt atactgcgcc tgttgagat 240
 gtattttccc cctgctttct ttgacatcat gattcacttg attgtgcac tggtcagaga 300
 aatcacatgt tgtggctctg tntatctacg gtggatgtac ccggttgagc gatacatgaa 360
 gatcttacta ggggtatacag agaatctata tcgtacagaa gcatcta 407

<210> 18458
 <211> 408
 <212> DNA
 <213> Glycine max

 <400> 18458

taaaggagca ctcaaatcgg gtgtatttac ccccatggcc tagactccga agagtccgctc 60
 agggcctctc cctcctgatt caggccaac ccaaaaaaca ttttagcaca cagactttat 120
 ctatgaactg tacaaaatac acgactctc aattgttctc aaaataattt tatctaactg 180
 cgcttgtgat taaactcgctc aggtcccaac agtgggtccc atcataatac tcgccacgca 240
 ttaactcgctc gcccttagat tcatagttca caaatcagtg cacacaacat ctcaatgcac 300
 atatataatta caagtcaata cataactcaat ttatcacata catttggtct caatcacagt 360
 ggtataatct caatttaaca tgttatcaca cctcatgaat catataca 408

<210> 18459
 <211> 347
 <212> DNA
 <213> Glycine max

 <400> 18459

aagctcaatc tgaccttcat gattttcttc gaggtaacca tgattttaag cttggctcctt 60
 ggtagtttaa gcttatcttt gcatcttttc tgactttgga accatcattg tacgttttac 120
 gcttccttcg aaaaaactta aagaaaaaga cttttgtaaa gttatctttt tatgaaatgg 180
 atgttatctt cgtgaccttc actgaactct ggtcacattg gcatgatcga aatttcaaaa 240
 tgatattcct tttcgtaaaa tccgaaacaa cctcatccc tttcatgtag tgacatgagt 300
 atttgactca gagtattggg tgtaactcta tttctgaaat ccatagt 347

<210> 18460
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 18460

tgacttgccc acttacatca accagtatat tagcattcct gatatccctt taaaattgaa 60
 taattgaatt gaaatgttca gaatgtagca aatcaatgca aattcaagat atttaagaag 120
 tcaatttcca agcactgcat ccaactttca tcttttgtaa tgattgaaag tcaaacattt 180
 ttcactgtct gaataaaatc tgttaaagca aaactctgct tcccaagcgg agaatcatac 240
 tcagtatctg gtttctcaac aattttctca atataaatat atgtgcaa atagctataa 300
 catatcctct aatatatgaa cataaataca ataactatgg gtaacacatg actagaatgc 360
 taacttgcaa gagagagaag tatatgatag gaattaatgt act 403

<210> 18461
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 18461

ttcttgcccta attaacctga aattgagaga aaatgattat taaacacaca aaatgaaaat 60
 actaagtatt tattacctat acttaacaga gaatacttat aacattacaa aataaccata 120
 aattgggaga gtttgatata atttatacaa gttttataca taaaagttag tcattttcac 180
 cgactaacac atagttgcta gttaaattga agcacaagtt gaaatatatc atagttgcct 240
 agttatgttt tatgctgggt ttttttctct aatgtttgtt tttaagtagt tgcctagtta 300
 tgttaaactc agcatgtaca gggagtattg ttccgtctat aagggtattg atata 355

<210> 18462
 <211> 391
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18462

 tgtccattnt aagggtcata gaggatcatg tatcgtcaag acgagcaaag gaatcatcga 60
 gggtgtggga gaccataagg acaaacgaga gcatcaaatg ttacgaacaa aacataatgc 120
 aggaaattaa agagttggct tcgaggcacc agaactcca gaggaagaag aagagtagag 180
 aggagagtaa tttgctaatt tcattcatgc ctgatgctat tattacatag tcatatatgt 240
 actgcattct atgtaactaa ttttggcatt ttgtgatttc tagaatgttc agaactcagc 300
 aatttggtta ttcttgtccc ttaaaggcca acatcaaate ttccatcctg cacacaacac 360
 tcctgcacga tcatgctcaa atgaagtcac t 391

<210> 18463
 <211> 230
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18463

 ccggtgcct gtgcctgtcc tgtctgancc cctggaaccc cttttcgctt gccccgtttc 60
 ggagagacgg cagcgaaga cagccccacc atgcccaggc gttaacttga tgtattactt 120
 caataccctc ttaaaaccct taaaaagtgc cccttttatt cacacctata agctctcgaa 180
 tctccgttac cttttgatat tatacatatt gcaaaactat tgttccacac 230

<210> 18464
 <211> 398
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18464

 tctccncaa ttttctataa ataggggaga agtgaagtag aaaagggttc agcccatag 60
 gcatttctct ctatttcgaa tttgcttagg aaaattgttt ctttgaagaa aatccaagcc 120
 gaggcgcttc tgtaacgttt ccgtgagtga ttctgcgaag gttttcgacc gttcttcgac 180

gttcttcatt cgttcttcat cgttcttcag tcttcaacgg gtaagtacct caaaccaagc 240
 ttttcaattc attttatgta cccgtggtgg tccacatttg gtttcatgta tttttattct 300
 cgttttcatt tactatztat agccccctttt gacgtgctta agccatttta tttaagtcac 360
 ttctcgctta acctaaaaat aaaataaatt tccaccga 398

<210> 18465
 <211> 343
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18465

tgcttttagac aactaaaaa aatatttatt attagatttt ttaaacaaaa aaatcacata 60
 tgttgaaaaa atattctaca tagtttagcaa aaaaaaaaaa aactcaacat aaaactttca 120
 tttaaagtaa aataaaaaatt cttaaaagtt gcttttagatt tcagtttcag ttggaccaac 180
 ccttgacag agatgcctat ttaacaagcc gcaatagaaa ttaacttttg ctgtatattg 240
 taaagcaata ccttcttata caatggaccg tttctgtcaa aagtatttnt atatgtaaga 300
 aaacagaagt aggtgggggtg aagatcaaac acgaagtgtc aat 343

<210> 18466
 <211> 398
 <212> DNA
 <213> Glycine max
 <400> 18466

aaaactcagc ttgggcttcc catcttgtga aagacatgtt gaaattggaa gggaaaattt 60
 cttcaaccaa tgtagatgtt gccatatatg atagtttgac acattatttt actttgctgg 120
 ttctgtgctt aatcttccat ttatattggt tatattttga aactattttt cactccacaa 180
 tgccattttt tgtttacaaa gttagggatc tgtaaataca tttttcagaa tgtgcttgct 240
 acaacttaaa atagcatgag aaactatctt tccccctctg tatttgacac atacacactg 300
 aaccttcaac ccaaaaatgg aaaacaaaaa caatgacctg tattggcttt tacgaaagcg 360
 attgcatttg gagttaccta tctctgatct aaatttct 398

<210> 18467

<211> 385
 <212> DNA
 <213> Glycine max

 <400> 18467

 agcttctcat ccttggtttt cactcgtctt gagtatcaag aagtttgcag ctaaggttgt 60
 tttttttttt tttttccatt ggaggcacac attggtttat ctttaaatta ccagtttagg 120
 attaatgata tcgttccatc ctttatatca aacgttctag cggatgtatc ttcgatcgtg 180
 tttcagtgag gtgtgtttta ttgagatgtg cgggggggaa tccccctgtt cccacaaaac 240
 acacacacac acaaagtact ctaaaattta agttgaagaa ttatgttggt tttagagatc 300
 ttattcaacc cgagcttgat aagatgaata aatgtttcag aaacatattc acttctgggt 360
 atgaaaataa aaagaaaata atgtt 385

<210> 18468
 <211> 381
 <212> DNA
 <213> Glycine max

 <400> 18468

 agcttggttca tccaataccc tgatgaggat gtcccatatg ttcttaaaac tggactgatt 60
 catttgcttc caaagtttca tggccttgca ggtgaacacc cgcacaaaca tttgaaagaa 120
 tttcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180
 aaggtttttc ctcatcatt agagggagtg gccaaaggact ggctgtatta ccttgctcca 240
 aggtccatca cgagctggga tgaccttacg agagtattct tagagaaatt tttccctgct 300
 tccatgacca cagccatcag gtaagatata tcatgtatta gacaactcaa tggagagagc 360
 ctgtatgagt actgcgagag a 381

<210> 18469
 <211> 425
 <212> DNA
 <213> Glycine max

 <400> 18469

 ggatatattc attagagagc tgtgagtctc tatgtctttg tgtataggga ttggtgtctt 60
 tctcttttgc ttcttactcc tttgataggc ctaaggtagc ttaatttcca cgcgacctcg 120

ctcttagtgc gggcttttgt gctaagcgtg agctagtcgt taagcgagga gaagtgctaa 180
 tgacaatcct acaactgccc aaatacaggg acctatgacc aggagtagga ccaataatc 240
 agtggatacc ctccaacaaa tggatatcagg cataactaac aaggcccaag tggagaaaaa 300
 tgaaggccca gaggcagagg cacttccaag aatcttaatt gttgttgaag gccacacta 360
 ttctgaacgc acatgccgaa ctatTTTTTT gtcatttttg cccaaactaa tttgaaggcc 420
 catgc 425

<210> 18470
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 18470

tgcattgag aaggaccata ctgtatcacc agaccaccca cacagtcaca tcataactat 60
 gctgcaccta tatatgctga cagaattcat aacgcattga agatacccaa cgtataataa 120
 ccagagtacg attaccatct caatctacaa gtttatctcg gtgtgatact gtatatccag 180
 tgatgttaca cgctcatatg ccaaattatc aacgctaact atcactatga ccctagtgtc 240
 tctgacccta ctctatttct atgagatgca tgatcttggg aatgatgaca aaaaaccacg 300
 ttcggatata tacggctccc aaggggatat tacataacaa cctgaatagc acccttttcg 360
 tgtaccatac g 371

<210> 18471
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 18471

tatcccatgc ctttatagcg gatgtagcat cacaaatctt cttgtacgca tcatcatcta 60
 atgctcgata gatgatgaac agagctttct tgctctctc tcttgaatcc ttaaaagtac 120
 ttcttttggtg cttggaatat tgaagtctca tgttgcggct ccttatagcc tttttcaacc 180
 atttcccaca cattatgtgc tccaagacgg gcttccattt tgatgctcca attgtcatac 240
 gtgccccct atacaagtgg aacttggaag gatgacgtcc atttcttaca ttactctaga 300
 ggaatttc 308

<210> 18472
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 18472

agcttatgag aattccaaat tctacaagga caagaccaag atgatacatg acagcttgat 60
 aggtaataag gactttgtgg ttggacagaa agttttaatg tataactcta ggctcggact 120
 catgagtggg gagttgaggt caaagtggat taatcctttt gtggtgacta atgtttttcc 180
 ttaaggtaca gttgagatca aaagtaaate cacagatatg agcttcaagg tcaatggaca 240
 tgggctgata ccattcctca caaatccttc cttagtggat gtagtggtgg aggagacctc 300
 cttacttcac cctacttctc ttccgccatg acttagggag tatttctttt tctatctcct 360
 tctttacttt tattgcactt gtccaa 386

<210> 18473
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 18473

ctctccacta aattgcctaa tgctgagat gtcttttctg atggcagtggt tccatgattc 60
 aggggaagaat ttctccaaga acaccctctt aaggatcatc tagctgaaaa tagacctggg 120
 agcaaggtag tatagccatt cttttgccac tccatagaat gatgaaaagc ctttaciaag 180
 atatgatcgt cttggacatc cgggggcttc atgggtgtaac aaacaatatg gaactcctta 240
 agattcttat gaggatcttc acctgcaata ccattaaact tgggcagcga atgtattagt 300
 caagtcttga gaacatatgg aacaccctca tcaggatatt gaatgcacaa gctttcataa 360
 gtgaaattag gtgcagccat ctccctaata gacctgt 397

<210> 18474
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18474

agcttctaaa ctttatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60

gatatcttaa gaaggggggg ttgaattaag atattccaaa ctacttacc aattaanaat 120
ctatttcact ttttattcaa gttataaaat cccttaacaa tgaacttctt aaatattaat 180
tcaataaaaa aaattttgaa tatgaatata aagcaataat aaacaaagga gtttaagaga 240
agagaaagtg caaactcaga tctatactgg ttcgccaca cccttaatga attgagcact 300
caaataattc cttaatgaat tgcaattgaa ttggccaagg aattcttaag aggataatat 360
gattttgctc tttgatagga caaa 384

<210> 18475
<211> 422
<212> DNA
<213> Glycine max

<400> 18475

tgaataagtt ataagttggt tggttctcta gttcttatat tgtgctattg cattatatta 60
aatgttggt acaaagatgt taaccaattt ttctaaccat aataataaat tgtttcacca 120
agttaaagta atttccacca agatgtcaaa taaaaatata ttcaattaaa acatggaaaa 180
caaaagaatc aaccaaattt gaaggagagg aatgaaatgg ggaaaagaac atgcaattag 240
cagcaaaaag tggaagatga aaagttatct atagaatagt ttttaccata tggatgccat 300
cacccttctt ccctctatac aaggatcata gttgatatag ataacaaatc tttttctttt 360
ttgccaacta cttgttggtg aggtgctatg agcaaataat caacagatca aatcatagaa 420
ag 422

<210> 18476
<211> 373
<212> DNA
<213> Glycine max

<400> 18476

cttcttctgc ttgcaatttc gagcgtctcg atatatgaag ggactcaatc ggacatccga 60
gtatattatc ttttttgcac tgtgaagcac gcaccgagct tctgttttca atttcgagca 120
ttgtgatgca ttacgtgact aaatagaaca ttcaagtaaa atgctattgc cgtttgcatt 180
tgctacaagc ttctgagtta aaagttattg cagtttgcac ttgctacaag cttccgcttt 240
caactacgag cgtctcgata tattactgga ctcaatcgat catcagagca aaaagttatt 300

gtcgttagaa tttgttcagt gcttccgttt tcaatttgga gcgtatcgat atattacggg 360
actcaatcgg aca 373

<210> 18477
<211> 424
<212> DNA
<213> Glycine max

<400> 18477

acagcagatt ttagtaatga cccactaacc tattattaaa ataacttaat accattaacc 60
tagggaatta aaaaaaactt aatggctgag tgtaactgaa attgtggcaa ccaaaagtca 120
cccccaacag ccaacaagtc agccaccatt tggctctcca aaaggctgat gcctagggtg 180
ccaattgggc ccttattaca acttgaacta aacctaacta aagcccttta gttgattaac 240
ccaaaacata tttttggtca gccaaactta caaggattgg gccattatct agacaaacta 300
aacactctaa aattgaaaca aagtgggtgc atttagtcct cctccatttg ggccatgata 360
caactcacia ccttggactt ttctccttga cacttgggct tgtattcaaa tagtatggac 420
aaca 424

<210> 18478
<211> 247
<212> DNA
<213> Glycine max

<400> 18478

gcagcctgca tatttgtgca ttttgcctag tgagtacatg actttatgtg ttaatacgt 60
tgtaattcac aatttttcta cttttctggt tgaaggttct taagcatcta tacagatctg 120
ggaataatca caaatttagt gctcgtccag cgagcgcacg cattacgcca agactgcgtt 180
attgactaag ctgtacctgg gcttatcaac ggatatgcgc tggaccacaa ttccgtccat 240
tggtcaa 247

<210> 18479
<211> 375
<212> DNA
<213> Glycine max

<400> 18479

tttcttcgtg ggtagagggg ctctgtctca tataatggct tgatcactgg ctgacatatt 60
 ctcaattagc tctgttgctt ctttcggggg cttcagtttt atctttcccc ctgtacaagc 120
 atctaatagt tgcttggttt gtggtctcaa cccatatata aacatattca attggattgg 180
 ctaagaaaac ccatgagtgg gagtttttct taacatgcct ctgaatctct ccaatgcttc 240
 actcagagat tcatcacgaa actgatgaaa tgaaaaaatt gcagcttata cttctacaga 300
 cttggactct gggaagaatt tctttaggaa ctcttcaaca acttcttcct acgttttcag 360
 actgataccc ttaca 375

<210> 18480
 <211> 244
 <212> DNA
 <213> Glycine max

<400> 18480
 tgttttattc ttgagcaagt cttagtgaaa gcagaacaat ggtccatccc ttatgagtct 60
 agcaactgca caaaggggta aagataatac aaatcatctc caaatgatca atcttgatca 120
 cacaatatac atatgtgttt aaaatctgat atatagacta tgtgtaaata caaatggcaa 180
 aagctctgca catgtgctgc ttacaataaa tactggcctc cgtaaactac tattaatcat 240
 ccca 244

<210> 18481
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 18481
 cgggtcaagt gatacggaat tgtttataag gtatgttgat ttatatTTTT catggaatca 60
 catatcttga taataatttg agaattacat atgcgctaga ctttgaaata ttgtatttat 120
 tagggtagcg tctctgatgg acaagaaatt gctattaaaa gattgtttat caattctaac 180
 caaggagata cataatttaa gactgaaatt tcgctaacag gaaagcttta gcaccgaaac 240
 ttaattacac tacttggctt ctgctttgct aaaagagaaa gatatttgat tatgagtttg 300
 ttcccaataa aaacctagat ttattatatt t 331

<210> 18482

<211> 736
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18482

caactcgctc tacttcacta ctacantatc tacacactga tagngnagta atatattaca 60
 ntaagtcact gtataantan agcaacacnn cnnaaaciaa gaganagnng tnngattggt 120
 ggaacgtccg ttgacacann tanangngac acatacnnta tcntacgtca ccacgagagc 180
 actactatta gtagtctgag acgtagcagg acctagactg tgtctataac aactgaacac 240
 acgctcatga gaacgctatc gcagggacac cgatantaca agtggctcgt gtggacgaca 300
 tatatgagac atagtcactc tttgtatcat aacagaaaca gagcagactg caagctgatt 360
 gatnctaaac aactgttgat acttacaaca agtcggtggt catatacaca gcttcgcata 420
 gtagccacgt tacaatatga gcatgcacat gaacgcttcg tactacacaa atacaacctc 480
 gagtgatgcy caacgacaca tgtcgcacgt acgagagata catgagcaag agtatagaca 540
 ctcgacaact gattgactgc aatggtggaa cgtacatgac ctcggatgta acaacgacga 600
 caagcatact gagcggacca ctaacactat catactagca aaggatatat actctacgcy 660
 tgtaaacaac gcgcagaaaa ctacttcgat gcggtcgcac caaactgaga gctcaaattcc 720
 ctcttgctgc gggtcg 736

<210> 18483
 <211> 504
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18483

cccactttac ctctctgat cacattgaat tcaatataat taaacacaan acagagggcg 60
 cgtgtgatca tcgatacaca caaaacattc tcaacggctt gcgcccacaaat tgagcaagct 120
 atccattgat ctggaacaca atcctagcga aaaccgtact agtgtcataa tgtacaaaca 180
 ctggtaccca aatatatctt cctgggaacg acaacattga aggaatccca tctcaactca 240
 tggccgccac gcacatggta agacaactct agatttagct caactagcct tatgagtagc 300
 tgagaccctt ccatcatata cgattaggct cctgccctaa ctaatttaat gacactttat 360

tcgacccctat atatctatat tcaagcccag tgtacctccc atgtcagtaa taacaatgtt 420
 caaacctatc tacgaatgca ggcatacagc gcaccctcag ttgcgaaatg accggatact 480
 tcacatacat cgtatcgaca aacg 504

<210> 18484
 <211> 541
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18484

ccacccacta caccaatatc ncatccctct atactactcc tcactcacta ataaatatca 60
 cactaaaaac aaaaaaacga gggtgaaatt gatgcgtcga taaacaacaa gacnaaaaca 120
 caacgaccca ggatccacaa gagacgaccc gcacgcatgc tttcttcatt aaccatcaca 180
 taagcacaca gtagtcataa gttcgcgaaa ggtacacaat aaaatccact ccatatgaaa 240
 cgggtcaciaa caaagacaaa acacaacgaa taatcaccac catcatacca cacaacgcta 300
 gtgaaactct caatcccaca aaagtccttg aaaatgtgtc agaaacatga caacctggat 360
 cgtaaaaaac taaacattgc acaacagcta ggtcaactca atcattcaag cacaatgcga 420
 ataactagtg acgcatcat ggtaagcatg tggatgggca cacaaaaaaa acatggctta 480
 ctcggaaaag aaaaaagagc tacgcgacat caattcccta acccacaaca aacccaatcc 540
 n 541

<210> 18485
 <211> 225
 <212> DNA
 <213> Glycine max
 <400> 18485

ccaatgcgct gatcatttta cgaagatctg tgatttcctg agtgatcgtg agatctctat 60
 aggtggagga tacatcccac ctcttttgca cggaagcaat ttgtcttggt cgctcttctt 120
 cattattaaa ggaacttctt tgctatggaa ggctatatcc tcagatgtgg attcctgctg 180
 aataatcggt gtatactctt tccctactta acaaatgatg tttat 225

<210> 18486
 <211> 701

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18486

ccatcaacca cccatacnch nactatctcc caccgagaagc agtaccaaca atacgggcag 60
 atggtaaata cacttgcgac atcacnanan naccaagagg agcacgnagt tgtagacct 120
 gtanacactn gagagaacac aggcnaaaca caccgtagga ncatcgcgga atacaaaaga 180
 agtggacacc cgcgtgtttg tcaaacattc gatacactaa ttgaatcgac ggagtgcagac 240
 tacgatgcat cgatactaac atcactaaca caatcagaga atgacactgc aaccgtatct 300
 ggacgagggg gacacagaac nagtcaacaa ctacacaca cggctacaga atatttagtg 360
 accgacgacg agcgagagg tatatgatgt gcgtggtgtg agtacacagc agcggaggcg 420
 aaacgagtac agcttaggac gaccgagagg ngataacaga cgagacagga tagatagttt 480
 ggcgccagaa gatatagaat gggcaacacc gncgtgacga gatacataag cgaatacaca 540
 gcgcggcggc gaaccttggg cgacgaacga tatacggcag tagcgagatc cagtcgcgtc 600
 gccgtgtcat cgcattgcaag atcgggcaag caactatcgg cagtagcgaa ggcgcgtac 660
 agagaattgg cgcggcacat gaggaagagt aaaaacatcc c 701

<210> 18487
 <211> 375
 <212> DNA
 <213> Glycine max
 <400> 18487

agcttatctg ataatatctg tgagttctac actctaacct atcaatatct tctatgtttg 60
 ttaacttttt ttctgctatc ataagtaatt gatgcatttc atgtgtgaat gctaacaaac 120
 tgttctgccg gaacctggga aatgtttgtc ttggcattct aaacggcttt gaagtacggg 180
 tggaggaact gaatctagtt ggaggtagga attttgttgt gttgttacca tctcttttct 240
 tctagttccc ataccactcg cattacaatt cctaacttca tcagcagttt tcatcaaaat 300
 gatgtgtaaa ctctgcacta tgtaaattct ggtatttatt gtttatgcag acatattcat 360
 gcaagacaaa gtgat 375

<210> 18488

<211> 418
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18488

ntgaacatga ctgtatgatc aagttaagcc taggcttgtg aaagaaataa agttgaagaa 60
 attgaactta atagcatagt tcatatacac tcttaccxaa tttttccttg ttggcaatgg 120
 caacttcaaa ggttgccctt ctcaattcat ggcattcatg acatgggttat taaattctcg 180
 agttaactca ttaactctta cgagtttttg agtccactta gcatatgcca gttgattcat 240
 gtgtaaactc tttttcagta gactttgagt agactctata aatcttaagt aaatccgaat 300
 ttaccaccga gtcaatgaat taacaagtta aaaaaattat atccaaatgt aagtcattta 360
 gagtcattct tagttttggt agtgctcaac atacctttca ttaacgtgtt attttcaa 418

<210> 18489
 <211> 384
 <212> DNA
 <213> Glycine max

 <400> 18489

agcttgccac ccagctcgcc caggcgagct aggttgcttc ctccagaagc aactgccttc 60
 tggaggaata ttctggaagg cccaagtggg gcctatttgt tatttgcacc cccattttta 120
 ctaaatacac cccttgatct tttttggtga ttttttttcc gtaacgttac gaaactttac 180
 gaatttcata acgatgcttg ttcgctttcc gtaatgttat gaaaccttac ggattacgta 240
 atcatccctt ttttgccctc cggaacgcta caaaacttta cggattacgc attaacactt 300
 ctttttaatt ttcgcatgt cacagaactt cacggattgt gctacaatgc tttcttttga 360
 cttccggcat gtcacagaac ttca 384

<210> 18490
 <211> 429
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18490

tgtaggatta tggggtaccc atcacatgtg gtactatgtg gcggtcgggc gatggtgcac 60

aacaagtttt ccacatccac aatgcgcgca taaaccacc atcccctggt gccacctcc 120
aactgagctc acgtactccc acgtagccca taccctcgtt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta 240
tcatagccaa gcaaaacaga gcaaaggcag aaaattctgc tcaacacatc aaccaaatac 300
acagcttttc tcaactaaag accacagtaa caattccttc gatccaattc gttaaccggt 360
ggatcgactc caaaattnta ctggaagtct acagtgcata agcctacatt gtgaccgttg 420
ggatctact 429

<210> 18491
<211> 383
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18491

agcttgatag tttaactaga gtcacccctg aaactcccca aacttccgaa ggaacatcat 60
aaaaaagggg aacaagaagt acctccaaat taattaatgt tcttaatgaa gatagtaatc 120
aaaacttaga aaacacattt aagatagggt cagtatccga aaaatacata aatccaataa 180
attccaaaca ctggaaaaca cctccaaat tatattatca aagaccaact gcccccgacc 240
ttctactaga agaaatagggt gaaagtaatt ntaaaagttt tagtgcaaata aacatctatg 300
agtggaaatag agatgcccaa acggagtata atatcatgaa tacactccaa catatgacca 360
tggtagccat agtctacca gca 383

<210> 18492
<211> 427
<212> DNA
<213> Glycine max
<400> 18492

ggccaactcg cacgaacaaa ctttgtccca ctgcatata agtcctagt tcttccatat 60
ttccatgcca aaaaaccggt aacaagaaag ttactgcaa gcttgaacca attgactatt 120
cgaagttgag ctaagaacaa cgtagatcca taagtatagt tcaattattg gacaatttta 180
tacgatatta aatatattac ctgtaagtta actacacctc cagacagaga gataaaaaaa 240
ataatataaa aaggtacaag taaacaacta gaatatataa agcttcaaac tcgagactaa 300

aaaacagaaa gacaagttat agaaagatac aagtaaactc ggtagccaat aaatgggttac 360
 atctttttct agtaattaga gcagcttcta ctatgcctca tctgaaaaga ataaattaat 420
 taattat 427

<210> 18493
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 18493

agcttcaaag aatttgtttc agataaggac atattgactg tcttaacatg ttacagacaa 60
 atacaatgat aaagctcaaa gtcgaaactc tcaggatgta caaggtgttt tgagagttgc 120
 gttcgaagtt agaacaaaat ttacaaagaa tttgaatgct taagaatgct ttgtccacac 180
 gttggtttct ctaagttcag ctcatcaaat cttcaactat ttgtagactt cagtaaaaagg 240
 taaccattgt gactgtaatg acctccatcc tcatcttcgt ctattggtaa aggtgttcgt 300
 tgaaacattt aatgcatatt accaacttgc caaactaata tgataaaaca tgttgcttat 360
 cttcatttac ctacattcca caagtatg 388

<210> 18494
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 18494

tgtatttcaa atattatggt gtgcgcttgt tgtaacatgt tatgtttgct actgattttt 60
 aattctttga ccctttgaat gaccaaattg gctttcgatg tcttcatgag acttgtagag 120
 aattttatcc ttacattca agcaactgga tcatgttatt tggaccatta caacataatc 180
 aatccttaaa gcattgcagt tttgttatat tgtgaggaca aactgacatc tctatcttca 240
 tggtcagttt cttccaagat ccaagcctta tttgcccatg acttctccat aaaagatata 300
 tatatctttc tcttagcttt ctacaaccac tgagatcatc ccaaattcac tttttagtct 360
 caagtagttt tcaaattatt gcacacatat gaaactgtca aggcaaacca gcgtctttaa 420
 ctte 424

<210> 18495
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18495

agcttgatatg gttaaagtct cacgattgtc acgtgctcat gcaacaattg ttagtcatgg 60
 ctatacgaga catcttgcca aacaaagtca ggtagcgat aactcgctg tgctttttct 120
 tccatgctat atgtaggaaa gtcattgata taatcaagtt tgatgagttg gaaaatgagg 180
 ccgcaattat actgtgccag ttggagatgt attttcccc tgctatcttt gacatcatga 240
 ttcacttgat tgtgcatctg gtcagagaaa tcaaatttg tggctctgtt tatctacggt 300
 ggatgtaccc ggttgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatata 360
 gtccagaagc atctattggt gaga 384

<210> 18496
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 18496

ttacggacac tatgaatctc agcttacatg gagctacatc aaggatgatg gtatatatgg 60
 ttccagaaac cccaattgca aatcaaacta cttcaacata gcctttggtg cagcttttgt 120
 ctacttttat ccaagttatc catggaatac ttttgaaatt tttctatttt tggctttata 180
 ttgatggcat ttggtgcgct gatgatgagt ttttgaagag agaagtgcta tctttcttta 240
 aaaatctttt tcaatcctca aatcaatgca aacctggtag tctacaattg atttccattc 300
 ctcaagtaga ccaaaatctg tatgatttat aactatctca tatttccatg gatgatgttc 360
 aaaatgtcac tttttttatg gattcctaca aagcccttaa tgtagatgag ttccaaccta 420
 tcttttttaa gacttactgg ga 442

<210> 18497
 <211> 747
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18497

<210> 18499
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18499

ccaacgcact tgacaaaaga tatataatta gtactaaaat acatacctca tananacgag 60
 gtganctgtg ctcgtaaaca cgggcacaaa cgcgccggag gacctagcat caccggcagc 120
 atcttttttaa caccttaagc tacgactagg tagttggccc aaaaggaacg gtccttgagg 180
 aaaaatctag aagccccaac aggacacaag gtgcaaaca cagagacgtg cgcgacaaa 240
 aaaatcctga tatagcaagg aacacgtagc cctaaagcac tctacaagag aaaaaaagct 300
 ctcaaatatt acatacagaa aaggggtaag cccgaaacct cctaaccatcg tcccaacta 360
 aaactaattg tggaccctta acgggggtga cttctgacaa caaaaaaac gaggaactca 420
 agacttatta gatcgaccat aaaaaaatac g 451

<210> 18500
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 18500

agcttctcta gaattttaac attttgaatt gggcttagtg agcagatgcg ctaagcgcaa 60
 gggctcttaa aactcaaagc tcatatgggc acgctaagcg cagctgtgcg ctaagtgcac 120
 catacgaaac tgccaaatat tataaggtag ctgccgtagg tagttaccat ttcactcttg 180
 ttgtgcatta aggccattca ttgcatctac cctcaacttg cttcatttcc ctgcattcct 240
 gcacctttgc tattctttgc attcatctac acaatccaag taagtttctt tactttactt 300
 catttcgttc taagttttca accttaggat agataattta gtgattgtta ggtagaatct 360
 ctgtttatgc 370

<210> 18501
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18501

tcttatccaa ggctcatctt ggtggtgaaa ctcttcttcc catggcttat tccctagtgg 60
 atggcgcttc ctctcacctc ttctcctttg tcttccgctg catctggaaa atcaccatta 120
 aaggacctca ttgaagctca aatatccagc ctccatagaa gccccacaag caagcttcca 180
 tcagaatggc aggggaaaat ggtccttttt ggtaacctgg ttcagcctgc tatagtcaat 240
 gcagactctc caactgttct gcacccaagt aggaatcagc tctccttct cattntttat 300
 cacggtgagg ccggttttct tcaggattac ctggacagaa ctcacccatt ggctgtcgga 360
 gataggataa atgattccag ttngcaaaaag cttggttacc tcttcttcca ctacatcaag 420
 atca 425

<210> 18502
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18502

tagctttgag ggaagaaacc tcaagaacac tttatgaagc ttggaagaag aagaagaaaa 60
 tggattcctc tccctcccat gaagaactcg tgcacaacaa tggagaatga aggttctaag 120
 tttgattttt ttggagaagt gaagagataa ggctttaagg cttgatccaa atgaaacttg 180
 gttagttaa tggtgataaa atcaaattga caacttgaat gatcattcaa tagccatgg 240
 ggacatgcca aatgcagcca tgcataatga gtattttacc ttttgaattt ttaaccagaa 300
 atgactaaag tatacttaaa gcaaaaatgg taaaaattgt ttttgctaaa actagtaa 360
 cttatcctaa tcttctagat tagt 384

<210> 18503
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18503

tgccgccc aa ctgcccagg cgagcaaggt tgcttctcc agaagcaaca gccttctgga 60
 ggaatctttt ggagggccca agtgggcctg gttactattt gcacccttt tttactaaat 120
 gcaccccccc ttctattttt ttggtaatc tttttcgtaa cgttacgaaa ctttaagaat 180

ttcgtaacga tacttatttc ccttccgcaa ggctacgaat ccttacggat tatgtattta 240
ctctttttta gctttccaag aagttacgga aactcacgga ttgcgcaaaa acacctcttt 300
tcgactttctg cctcattacg gaatttcacg gatcgtgcaa gcttgcttcc ttttgatctc 360
ggagacgtct cgggacatca tntattgtgc aaccaacgac gcca 404

<210> 18504
<211> 385
<212> DNA
<213> Glycine max

<400> 18504

tatcttacct tgaattataa ttgtatcctt tgcacccttt gtgagctaaa ttacattttc 60
aaaattgaac cctggacttg aatgaatatt tccagatacc ttgttttagat tctaggagag 120
cagatagttc aaggcaaatt acctcaaatt tgggggagtt gattgggatg taaagtaaaa 180
ggtaaagcat cagcacacac aacaaataag ttgtgtgtta aaaaaaatgt tgttgtaata 240
aggtcaaattg caaattaaag tgaaaggctg gtgagaaagt taattgtatt gaaagaaata 300
tctggatgaa tctaggattt gtgctctctt ataactaag tctttgaatc ctagaaaaac 360
caattaatgt tgtagccgaa cctca 385

<210> 18505
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18505

nntcaataat aaggtttag cccagatatg tattcataat ctcaaacgca ttcattgactg 60
gcactgggtg tgctgaagac cctgcttcat ccaccttatt aacacgcttn ttgtgaatcc 120
cgtgccccaa attaggccca ctgacttcaa ggttaaaagg ataaatcttt tccaaacttt 180
ggttagccat ttttaagcca gaataaagtt taaaccaaag tttttacctt aacaaaacta 240
aaattttgcc ctgaaaaatc taggaggctg ataattttgc atgaccatt cattctcaaa 300
gatctcatcc attgt 315

<210> 18506
<211> 376

<212> DNA
<213> Glycine max

<400> 18506

ttgcttctcg cccaattttc tataaatagg gggagaagtg aagtgaaaaa ggggttcaacc 60
gcttaggcac ttctctctct ttcgaatatg cttggaaaaa ttgggtccgt gaagaaaatc 120
catgccgagg cgcttgcgaa acgtttccgt aacgtttccg tgaggaattt cgcgaagggt 180
tcgaccgttc ttcgacgttc ttcattcgat cttcgatctt caacgggtaa gtacctcgaa 240
ccaagctttt caactcatta tatgtacccg aggtgggtcca cattgggtgaa cgcgtatcat 300
tattctcggt tcatttactt tttatacacc cttttgacgt gcttgagcca tggattttaa 360
gtcatttggtc gcttaa 376

<210> 18507
<211> 339
<212> DNA
<213> Glycine max

<400> 18507

tgttgatga tgggacaccc atcatatgtg gttctttgtg gcgagcgggc gatggagcgg 60
ataaactctc ccacatctc aagtctaaca tgaaccaccc ataccagtt gcacacctc 120
aactgagctc acgtactcct acataatgct tatectcatt cctgccaaca gcgggacccc 180
atgaaccctt acaagctgcc ttagtatccc ggcgatccga tctccactat catgaggttc 240
cctataccaa gagaataggg cagaggcaga aaactctgcc caaaacacat tgacatctta 300
tagcttatct tactcaaag cgccaatcac attctctct 339

<210> 18508
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18508

agctnnttgg agtagaaaca tgggaccaac tcattttatt tcaaaaagga agtcgtatct 60
agtcaaggtc tgagagacca tacaagtttn ctaacgattt ctaattatgt gggccattaa 120
gtctatcata tgctgacaat agccgagaag tccgtggatc tccttgnggg cggagtaggt 180

gtccgccatt gctttggcct tggctagcaa tcggcgaagt tcttgactct tgttcaaagt 240
aagagcaaat cggtcctgcc acattgttgc ctcttgggtgc aatgaatcaa ttaccctttc 300
ccttgcttcc ctttctgctg atatcttggc gtactcatcc tctagccttt gctcgtgagt 360
cgccgct 367

<210> 18509
<211> 415
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18509

tcattaagag gcttctagca tactccagac atcttctcat agatcccaac agtcagatca 60
tggacaagtg tcttgtgaag tttaagacca aatttcgaga agatccaacg gttaatgaag 120
gctgagcatc gtttttaccg aggcagctgc atgtagcttt ctctagaagc ttcattaaga 180
ggcttcctct agaagcttcc tcgtggcttc tttgagaagc tttctcaaca ggattctttg 240
agaagctaga tccttatcta tccacacccc tctattaact aaattaactt ccttaaaaat 300
aattacggat gaaaataacg caacaaataa tcaaacatca aacataatta ctaataatat 360
atagatatat atatcanggt gttacaagga actaacagat ttgaggtcaa atcct 415

<210> 18510
<211> 377
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18510

agcttacaaa aatttgtaaa ggggtgtcaat gagatatttg gacaagagta cttgagaaga 60
cccaacaaca atgacatcaa tcgcctacta caaattggag atggacaagg gtttccagg 120
atgttaggtt ttattgattg catacattgg gagtggaaaa attttctgtc agacccta 180
tttgtccaag gacaatcatt catggatatt ttgattctcg ctagccaaat tgagctgttt 240
gacaccagtt accgcgcaag acgaaagatc attcgatgtt ttgggtcaagg gtgtgaaaga 300
tactaaaagg gaggggcaaa aggggtctttt canggttatt tctagaccct ggctcgccca 360
ggctagcctt tggtctt 377

<210> 18511
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 18511

tgctcaagac aaaacctaac attccaatcc actcaattca tactatttct cattctaate 60
 aatcacaaca cttcatttca tacgaaatca aaccactgaa tcatttttcaa tcaattcatt 120
 gttcaatcat gcttttgtac aagctactac tacaacaaaa ataactaaaa tttaagactg 180
 aaattttaa atactgaaaca taaacataaa ataaactaaa atagaataat aataaactgt 240
 tcaaaatgca agacaagaag ataaagatcc tgtcaatcct cctgtgggtg atcctctgca 300
 tgctcattaa gatccaacac cggagcagct ggtggatcct gaacaatagg ctgctctggc 360
 tccaatgcta gtgcagatgg atgagaatca tcaataactg gagctggaga gacaggaatt 420
 g 421

<210> 18512
 <211> 537
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18512

gcgccaccac actcacttcc actacatcgt taatgagatg gctgattaaa taaatacagt 60
 cgaaaaanna acagagagan atgatgcttc gaaaccacga cgcacaaan aaccgnggcc 120
 cgggattcng cagagtcaaa atggacgcat gtatcttgtg gtggaaagaa ggcgaccagg 180
 acaagctacc ttatatttca ttcaatggac atccaatgta cattaatgac gaggaagacc 240
 agaccgcgaa gacatcatat taactaatca cagagcgatc gttaaggatg aaaatattgt 300
 cactaattaa cgacacagag cgcgaaagtc atgacgggga gggaaaccgg gaccccatag 360
 gtactagcaa tgccaggact gaaggaaaga attgaccctc cccgaaaata tgaagacatt 420
 gtagcgaaaa taatccttac aaaagccgta taaaacgaat ggaaaaccag cgagccacac 480
 tcaaaaagta tggggcgatga tgcaagcaca agaagagaag gaccccaaac aaccacc 537

<210> 18513
 <211> 388

<212> DNA
<213> Glycine max

<400> 18513

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ggagaagggtt aacacctttg taataaagaa gtagtttgaa gtcctaaga atctatccaa 120
aatatactca aggagcaaaa gatgttaaaa caggaaattt aaagaggaat gtaatttcaa 180
gttttgcaat taacatggta aatgatattt agttttctgt tattccttga ttcttctata 240
cataatgcac accagctgca aattcaattg cagtcacata tcagaaacat tgtcttggat 300
caatctgctt caacacgtta taccgcatt ataatatctt ttaagctagc tagcttataa 360
tgataaattt taagggtctt cacatttt 388

<210> 18514
<211> 425
<212> DNA
<213> Glycine max

<400> 18514

tggacttaat attctgtagt tgggtggttga tccatcacac tacggattag aaggcaacgg 60
gaattatggc accgaaccag gaatcttaaa cataaaaata gaatccaatt actagttaaa 120
ttagtagaaa acgacaagaa atcttctaca ctatattgca atataaaatt caactatcct 180
atgaagtatg aaccttccgt tttctattcg ttaagctgta tgtttatgaa tatgattaga 240
agtaggaacg atgtttacct acccaciaaac aataacatca attgaataga aataccccct 300
ttttgctccc tatectctta tgatattgat aactaattga attgaatttg attttaatat 360
atcaacagtt ttttttttac aagtataaat tatttttatag gaataagaat ataagatgaa 420
ttaat 425

<210> 18515
<211> 384
<212> DNA
<213> Glycine max

<400> 18515

agcttataga agaataagaa agggggcaaac agaagactca ccatcctgtc actgaaaaca 60
ctcctctcca tcaaacgaag aggcttgatt ccagcagatg actctctttc ctgcatgacc 120

cgtgtgacaa acacatagtt ctgaaagggt taggcataacc gttgcggctc ggcataaaaa 180
 gcatccaaaa tgttaaagtg atcaggcca acatcctgcc acttgctaata gggttcatga 240
 accacctcaa caagatcacg caactcgatc gtttcattcg ctattctctg gaggaaggta 300
 gtcttgccaa cgctaagtt accctcaaca cagaatgtta agcgcttctt ctgaacagag 360
 gaagaggaat tgtcttccaa ctcc 384

<210> 18516
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18516

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 tactagttaa tttcctttta ctcatatttc ctctaaaaaa aaaaaaactt ttactcatat 180
 ttgaggatcat atatatgtaa atcgatacca aaataaaagc gaaggtagaa tgacgataag 240
 agggcccagt aaatttttta atgtcaattg ctacaaatag atcgacttta ttaaaataag 300
 gtttttggtta attatgatta attgattatc agttcatttg gttgttttta ttaataatat 360
 tattattggt ctattaagca atatgttggt atgagaaaaa atttcataat tttaaatata 420
 tgt 423

<210> 18517
 <211> 381
 <212> DNA
 <213> Glycine max
 <400> 18517

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 tggaacttct tgggtcttttc tttgtagaac ttggcattct catagccttc taggcggatc 120
 tcatctaact cactcagttg caactttctt tcatcaccag cttgatccat agagaagttg 180
 caggctttca ctaccaata tgctttgtgc tcaatctcaa ctggaagatg acatgccttt 240
 ccaaaggcaa cccgataagg agacattcct atgggtgctt tgtaggtagt cctatgtgcc 300

caaagagcat catcaagcct ggtactccaa tctttcctgc ttggctgcac aatcttctct 360
 aaaattctct tgatctccct g 381

<210> 18518
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 18518

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 aaatataaat ttgatacaag aagttttttt ttaagaaaac aattcacgcc acgagatcca 180
 cgataacaat agtcacacagg gaccatgata gctgtcacgt acctacatgc aatgatagca 240
 acattcaata attgcctaca aagataaaga tgaataagaa aatttcataa caaaacgtgt 300
 cccaccaccc aaacaaataa aaaaaagaaa aagaaaagag cccctttcaa ctatgaagag 360
 cataatgaac tgatagtggc cattggcttt tatttggtat atgacacata ttaccttcat 420
 caaccca 427

<210> 18519
 <211> 222
 <212> DNA
 <213> Glycine max

<400> 18519

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 agagaagaat aattctaggg ttttagaatt ccagacactg ttcacgtaga ataaaatttg 120
 ttttcgcaa tctcatttct acttcaatct acaatttcgt tttctattga ttaatggaag 180
 gctaaacctc tctagttggt gtctcttgag gatcaacctc aa 222

<210> 18520
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 18520

ttggctgcgc agcagctctg atttcgtgag tatttataga agatgacgca ttgtaatcga 60

ttacaggtat tggtaatcga ttacaggccc aataagcctt ctggtaatcg attacaggat 120
 gttgtaatcg attacaggct gcctgttcat gtgtaatcga ttacactgga tggtaatcga 180
 ttaccagagc ctatcctagg ctagtcttcta agagaatatc tatatttatg ctcaaataca 240
 tcctatatga ctaattctca ctactaatac actaaattca atcattcaat tactatatac 300
 acaagaaatc ataaattcta tcataataac acgaattcac acatgatcta actatataat 360
 ctacaatcaa aaggtaaaag taaatcaacc aatcaatccc tattgttcta aatctcttac 420
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<210> 18521
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 18521
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 tgttatgatg aaatcttgtc tctaatttat gacacagggtg tgacgggtcat gcataaattg 180
 aaaccttggt tctttatggt ttttctatgt ctggattgct tgaaagtatt gttgagtatt 240
 gttaagcact gattactttt tagtgaaaat tttccttaaa attaccttca agtaagactg 300
 tgattaccag tgaccacaca ctcaaactgt agtctgttcc tgattggata gcaattgtgt 360
 gaagtggata tgttattcct gat 383

<210> 18522
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18522

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 aacttcta atgtgtttga attgtcctgt ggaaatttct ggcagaacat ttgtgattga 120
 tctaatttgt ttgcccttta gccaaattga tgttattcta ggtatgaact ggttatcttc 180
 caaccatgtc ttgttaaact gttttaataa aactgtggtg tttgatgggt ctggagtaag 240
 taaggatatg atatttatct ctaccaacca agttgtgaca tctttaaaag aagattctca 300

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

<400> 18523

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| <210> | 18524 |
| <211> | 418 |
| <212> | DNA |
| <213> | Glycine max |

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| taaactntnt | ttaccatgta | tttacagggga | aaattgcttt | gagttcagca | agtcatecga | 60 |
| aaattgatga | cgatgatgat | aacttagacg | agtttcttga | ggggatgttt | tcgcgatcct | 120 |
| ggctaatttg | attgtggtaa | caaaaggatt | catcaaaaga | gttaagaaaa | actcctattg | 180 |
| agttcttgta | ttagagatac | tctaaaatta | aactaagcta | aaataaacat | gtagtattta | 240 |
| acttaaactt | atcatatttt | ttatatataa | ttctcacatt | aagtaatgtc | acatgatatc | 300 |
| ttttttacat | ttacaacaac | aagttgatat | gagatctatc | tagaacaagt | tcgagaattt | 360 |
| caagagaaca | ttctcaaaca | tatatattcg | atatgagatc | ttactgacaa | gaataaaa | 418 |

7755

<213> Glycine max

<223> unsure at all n locations

<400> 18525

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aaaagcataa ctacattgta atgaaaaatg aatgaataat aataagagag atgaggtgaa 120
caagttttta acactttgtg attatgattt tttttataat gtagaagttt ttaaagtctc 180
catgattgta attgtagtag cattgggttac atttatatgt aatttctctc aatatcaagg 240
tttgtgacaa aactgtgaca acaatttaaa gccctaatat aaaggattac cttaaagtat 300
ttaggcaaaa atgattcatg atttacaag aaacaactaa atttattttt canactacca 360
aactaagcaa taacaactac attt 384

<210> 18526

<211> 403

<212> DNA

<213> Glycine max

<400> 18526

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acttgagctc gcgtttgaag attgtgatcg ttggaacatt taatgtttgc attcaatgca 120
catatgataa gtgcacaaatt taagttattt ttgggattaa attgtagca cttatccttt 180
aattgtaata gttttcttat aaactaccct taaaactagt tgtaactata tattgtacat 240
tcactaatat tattgcttaa atatgaaaga ttcattcata attttgtaag ttttgatggt 300
tgtttggtat atctagaaac atagctaaaa ggaagggtga aatggtcatt tcacgaagat 360
ttttgatcct aaattcaccc aggtatcaa ttacatcact tat 403

<210> 18527

<211> 241

<212> DNA

<213> Glycine max

<400> 18527

tttctatgag tcaataactaa cgataataac ttactactcg gatgtccgac agagactcgt 60
agtatataga cacgctccaa attgaatgga gaagctgtca tcctattaca acaatagtaa 120
cggttaactc ggatgacaga atcttagacg taatatttcg ggacgcttgg aatgaaagt 180

agagcatgtg agcactcccc aacgacactc taatgttaac tccgacgtgg gaatgactcg 240

c 241

<210> 18528
<211> 417
<212> DNA
<213> Glycine max

<400> 18528

taaacattca attgcgagag tctcgttata ttacggtact caatcagaca tccgagtaaa 60

aagttattgt cgtatgaatt ggcttacagc atagacattc aactttgagc ctctcgatat 120

attacgggac tcaatcagac atccgagtaa aaagttattg tgcgttgaat ttgctcagag 180

gttcaaaatt caatttcgag cgtatcgata tatttcggga ctcaatcaga catccgagta 240

aaaagttatt gccttttgag ttggctcaga ggttcaacat tcaatttcga gcgtcccgat 300

atttacgcca ctgaatctga catcccagga aaaagctatt gtcgctagaa tatgctctga 360

gcttcaacat tatattacga gcgtctccat ttttttcggg actcagtctg acatccc 417

<210> 18529
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18529

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attaattttt ttgcttttac cttctcttcc attggtgttt cttcattttt ttctccatgt 120

atctcctcac atgtcttggtg ctaaatgttt ttaacatcat tcttttagagt ttccaccgat 180

taaacttgct atataagcta gatttgattt tctatgggtc aaatttcttg tttttgttct 240

tgaaccatga attgtgttga gtttaggttc ctttgagttt tgtcttggtta ttttttgtgg 300

ctgaaaccta aaccataaaa ttcatacaaa aatattaaag tagaataaaa gctcanaaat 360

ctagagtgc ttgttcacct attg 384

<210> 18530
<211> 418
<212> DNA

<213> Glycine max

<400> 18530

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tgtgaagttg aagacctaata ttcgagaaaa tccaacgggt aacgaaggct atgtagcggt 120
tttaccaagg cagcttcatg tagctttctc tagaagcttc attaagaggc ttcctccaga 180
agcttctctg tgggttcttt gagaagcttt ttcaagaggc ttctttgaga agctagatcc 240
ttatctatcc acaccctct attaactaaa ttaacctcct taaaaataat tacagataaa 300
aataacacaa caaataatca aacatcaaac ataattacta ataatatata tatatatata 360
tatcgggggtg ttacaaggga ggcaaagaat tgggaagtac aggcggcccc cattttgt 418

<210> 18531

<211> 378

<212> DNA

<213> Glycine max

<400> 18531

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ttaaatcata caacagaaga gaatcctgta tagactagaa gcaactaaca agaatgatag 120
acaagaccag agcactaaga agctgcaata agcagtcctt caaaggccac ccagggtccc 180
acagccaatg ccaaattcta tgatatgccc cctcttctct gtacgcactc atatatagca 240
aatagcggtc ttttccccca tgatggccaa atccactgac acatttatga gatgccacca 300
gtccttgctc tatatacttg cctctcctag tcctatccta tgaaggctct ccacctcctt 360
gtccttttca ttgattag 378

<210> 18532

<211> 382

<212> DNA

<213> Glycine max

<400> 18532

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atthaggaat gattacatat cttgtattac caaatgatag aattttttac gaacatccaa 120
taattgcatt gactaataaa taaatattta actataacta attattatat ataaaagaaa 180

taggatgttt agatgtacat tgtattatat ctattttatc ttataacta tattcataac 240
 ttattatttg atttatatta ttacctgata taatcacccg ctaactaatt attatttttc 300
 attgaataaa taaacatgaa taaacagtta cacgtgcatg ttatttccta aaatgttata 360
 ataatatgtc attacctcaa ca 382

<210> 18533
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 18533

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 tctaggcttg agaagtcaaa ttgagaatgg gacaaatttg aagcaaactc tcacctcaca 120
 caagtctata acatcaattt aaacttggtt aaactggatt tacgcttaaa atctcaccga 180
 atcaaaattt gactcttcaa caccctaaatt taccctagaa atggctcttt gttcactttg 240
 gtcatttggtt tttctctcta gcacagccta acctttctca taagtcttaa atggcatttc 300
 aagctaagat taactcactc taacctctaa atactaccaa ttccagattt ggccttccag 360
 cctcaaaaaa ttcactatt 379

<210> 18534
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18534

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 tgccccacat tatttccatg acacaaaatg caaaaaaatg atgatttgga aactttatgc 120
 aaaactgggtc atgcatgcac ctatgcggac actcaagtgt caaattttta tggcatgtg 180
 atgctagggc tcaggattca tttcctctat tttaatcaac ccaatgtttc caaaatatgt 240
 tcttttatca atttggtcat tcacccgagt ccatttcggg cgtccgggga aatttcacag 300
 cattcacctc tcaggtgtag acacattttc caaaaattgg ttatgatcaa tgaacttttt 360
 tttggaaatc gtctcttttc aaaagcatgt cgttttttag ctagacaact tattttc 417

<210> 18535

<211> 365
 <212> DNA
 <213> Glycine max

<400> 18535

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 gagctactaa agaaggccct agggttctcg tgaaccttag ggtagatttt tgagcccatg 120
 ggtcaagggt ggatccactc ttctttgtaa atattagaat aggttttttc ttcttttggg 180
 ccttgtattt tggccattct agtagtatag ggttttagcc ttgtatttta aggcattattg 240
 agtagtcttt gtagtaggga ctttttttta ttttcatgta tttttggaat gggggggaac 300
 ttagctatta taggggggtg gtagctaagc tctagctttt catctcaagg aggtgagctt 360
 agcta 365

<210> 18536
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 18536

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 aaaatggtaa gagcagagta tcgaattctc ggggaactag tggtacttgg taaagctata 120
 gtcagtgaat aggtgtctag tatgaaaaga tatgcgtgga ctatgaacag gtatgtaaac 180
 taactattaa aaggaaaatc acgtgagtaa tgggtgcataa agacaagtag acaacatgtt 240
 ggtcttctta ttaggtgcct gatgttataa ggatattctc tacttaataa agtcctctgtg 300
 ttctatgggtg tctctgaaa tgctaaaccc tgattcctca tgatagtcta gcctaatect 360
 aatcaagcat catccttaga ttcctctttt tggactaaac tcgacaaaaa ccgtattaag 420
 acaaac 426

<210> 18537
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18537

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tttgattatc ctgctttaat gaatgggaag cctgcggaaa atggagagaa tgagaaggag 120
 ggaagaaccc atgttgtagac tgttggttct ttatggccaa atttcccacc agctcaataa 180
 tatcaatact cagccaatat caatccttct aattaccac caacctatta accaagaacg 240
 cttaatcacc cacaaggcc acccctaaat cagccacaaa acccgcttgc cgcacatcca 300
 ataccaaaca ccacccttaa cacacaccat aacaccaacc atggaaggaa ttttctagca 360
 naaaagcctg tagaattcac ccc 383

<210> 18538
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18538

tgtgactctt ggaaatttct ttaaaactag tcacttaaat agttgtgact tttgaaaaaa 60
 tcttcagaaa caagtcactt gaagaattgt gacttttgga aatttatttt tcgaaatcaa 120
 tcactagtag tcgattacca ttaaggtgta atcgattaca tatcaacaga tgtgactctt 180
 cattttaaat tttgaaaatt aaaatgtcta aaagctctgg taatcgatta cattgtgtaa 240
 tcgattacac aagttgaaaa tgtttaaaca caagttgtac ctcttgaaat atgaaatctt 300
 aacgttttaa aacattggta atcgattact atcttctggg aatcgattac cagagagaaa 360
 aactctttgg taatgatattt gtaaaaactt cttgtgctac tcaatgtttt gaaaaa 416

<210> 18539
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 18539

agctttgtgc atctcatcgt gcattgtgtc taagaggag acaaccataa tattgcatcc 60
 ttgaggagtg cctgttgccg gacagatata tttgaacatg aaacttatat ctgatcattc 120
 gccttggaat tcttccaatt aaccttatta taatttatgc cttggctgat gctatatata 180
 tatatatact atatacttat tacacaatat acgtgtatgt gtatagatt cataaagaat 240
 aaatagtctc atgtttaatg attatatatt gtggagtgat aaaccattca ctagttagag 300
 agacaacggg actgctactt ttattatgta tctgataatg actaagacac actgttgact 360

ataagtttgt t

371

<210> 18540
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18540

cacttagaaa ctcagcttgg gcatgaatgt ctgcccaagt ctatttccat gtttgacctg 60
ctccaataac aagtcaatga ggcacgggtc cattgggggt gtccaatatg ttctagtacg 120
atcagtgcc a cttgggttgc gacttccttt tgtttcacct tcagaaagat atacgaccac 180
agaggtaact actcagttct ccaaagatct tatggcctaa aatatgaatt ataacatatt 240
caagaaatga caagtgaac atgggggatca caattacaat ctacccatgc taattatgta 300
agtcattcaa aaatttacac atctcataat tagattcata aatatacagt tctaagaagt 360
taaaaaatta taatatctag ataacaaaca tgtcctaggt atttccatgc tatanacgcg 420
tgaagtgact aagtgacaat 440

<210> 18541
<211> 382
<212> DNA
<213> Glycine max

<400> 18541

agcttgatat gaggaagtgt tgaagggtga aacttctgc ttttattgtt gaccacagag 60
tggtacctgg agatatgtcg cggggtcaa gagaccttg ggacgtcagg tggggtgcta 120
ttgccccaaa ccaagcttga ccaatcccg cccaacccgg gcatagtcgg tcagtggaaa 180
catgtgacgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240
cacagagcaa ggaggcttgt ggtggctggc cagctgtgaa ttatgtgtaa tatgtggatt 300
gaggcctctg gtaatcgatt accatgggtg ggtaatcgat tacaaggctt aaaattgaag 360
acaggggggt aagatggtct ct 382

<210> 18542
<211> 418
<212> DNA

<213> Glycine max

<400> 18542

tatgcgcata tttccctacg aacgttcact tgcacaagac atcctattaa ctaagaaaaa 60
tgcacccata tacaatcaag gtagcttcat tacctagatt atttacatgt acttccaagg 120
tgtatttggt atttacatca cacacgcctc cttgggctaaa tttacatata tgcataactca 180
aagcatttcg gggtagcaaaa aattgcacat gcgctcatct tgggtatttct aatacctata 240
catatacaaaa cttcatgatg aatcttgact acctacgcaa taagggtgcta catttcatgc 300
tctttttttt tttttttttt ttgaggggaa tattaacctat gtcccctccc ttctcatgga 360
ttagcatctt gcctaacttg aacttactta ggtagaatt atgcgttgat tacttatt 418

<210> 18543

<211> 383

<212> DNA

<213> Glycine max

<400> 18543

agcttgctgc atggcatgat ggaacttgca gttatccttt cacctttggt attcacggaa 60
atgtatgtct tcttaggttt ttctatctgt tcaggaatca tatacaaata ccattattac 120
tagcattaat catatattct ctttcggtat ttttctcttt ttagtagtact ctcattatgc 180
taggtggagg agagcgagga cttgaattat ttattataat ttgcccactc attattcatt 240
cataatatta tcttccact gttatcttca acgcatttat ttgaattttg tgggggaact 300
cgagtaagtt gaggagtttg acaaaatcaa agtctataga ctatagcaaa cgttaaattc 360
ctagttctga tgtttgacaa aat 383

<210> 18544

<211> 423

<212> DNA

<213> Glycine max

<400> 18544

tagcccatca tcaatattga tttcaagaaa caaaaaagca agtagatata tcaagtgaact 60
gagccagacc aaggaaaaat acatcaaaga aaataaataa tctagtatag ctaattttat 120
aatcagataa agcatctgag acctgctgcc atgtgggtatc aacaggaggc tgccgccgag 180

catcgccagc atcaaaatcc agtacaccat aatccctcaa ccgaatctac acagcaataa 240
 ctaaaatcag aagtcttttt gaggattaaa tgcattggcat tatctataag acacattttt 300
 caaattgaga caaaccgaa ggaaggcagc gattctttgc aatttccaa caccaccacc 360
 aagagcagcc taccattaga taaaaaagca agcagaaatt aagtgttgat aacaaataca 420
 aat 423

<210> 18545
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 18545

ttattgtgag catctctcgt gatcggatga taaatctttc ctacaatgag ctttccaccc 60
 agcctaaggg agcttcggca gctaccgtac ctctaggtgg accacaacct catcaaagga 120
 acgctgtctt tggcgctggt caactgctct atgcttttgc atctgagcat ggagggaacg 180
 ttcttaccgg cgtccgtcca ttggcgatta cggcacttcc atagctttaa gtgatgtcac 240
 tctctagaac aatctcacta gctccattct gggttccgct ttctacaaca gtaatatcca 300
 cgtgtcgacg ctagatgttt ccaacagtgc actgtctaac gacatatatt actcctcaat 360
 ccgattgcta tcatcaaat 379

<210> 18546
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 18546

ctagagagtt ctacactact ctagagttct ccaggtcatt caagaaaatt ttacactttt 60
 ctagtctctc caattaagga gggatcccaa caaatctccc cctcccgact taattgggag 120
 gtagtagcaa accggcacct tgacagcaat cttcaaattgt ctttgtcggc agtactttgg 180
 tcatcatgtc tgatcagttc tcgtttgtgt gaacctgtc aagatgtact ttcttttcc 240
 cgaggacatc tcggatccaa tgatacctta tgccaatgtg ctttgtatgg gaatgaaatg 300
 ttgagttcct tgccaagtaa attgaacttt aattatcgca cttcaacaca tacctatctt 360
 gatctattcc cagctcctgc aacatgttct tcatccacaa catctccttg caagcttcag 420

tgga

424

<210> 18547
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18547

tgcttctctc tgatctgcct ttagctacgg ggagagatgc atttggcaat ggtccagcct 60
cctangctct attctctctt tcgaaaaagc ttcagaagct tgctttctcg aagaaaatac 120
aataccatgc gctgacatag ccactccggt accatggcga gactgattac atgccagatc 180
tctaccgtgg atctgactga ttaattgctt tttcagctgg aactgttag atacatcatt 240
ccctgctttc actatcttac tatgttccag cagtggatca ccacatgttc catgagatgt 300
aagattcgta aacatatact gatcatactc tctttatacg agcccaaaca tttgatctac 360
atgac 365

<210> 18548
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18548

tgccctncaca gaatgcctag accgagagac acatgttata tatcgctaca aacctctccg 60
tcgtggacga atgactgaaa tagagctcct tactgctaac atgtctattc tccacgggac 120
gaaccgagtc taccatatac tatgtgcgcc tttgtaacac ctacacgttg aagaggttat 180
attgatgatg caattgttcc tactacacca atagtgtac agagctgact gtgtgaagat 240
aagctaaagg ccgaagcaga tctatcaata tctgaaatc aacaaaccaa atccttgtgt 300
gcctcctaag aacacttatt taatgtctta gtttgaacct gataggagaa taacgatctc 360
cttcttcttg aagcttttta attttcccag tgctgggtga aaaat 405

<210> 18549
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 18549

agcttgaaga tgttcatggt aatagtgttg aatcataaca gaataatctg agacaaaacg 60
 aacaagtgtt gcaacgctgt cagtttactg aacaaaggaa acttcaggaa attgagtgaa 120
 tcttagcttt gctaagtttag tgagtttcat tgtattcgag cttattatgt aaacactctt 180
 tgagtgatta agaatacatt ctctatcaaa catatattat ttttgaaagc taggagtgcc 240
 ttagtgacaa agaatacttg ggtcttaatc tcaatggaag attaaatgta gtgtcaagag 300
 tggcctagag agtactctnt ataatcaaaa gtggcataga taatacttgg ttgtaatcaa 360
 agaaattctt agtgaaccc tt 382

<210> 18550
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18550
 tctcagtcaa ttgactcacc ttctccttaa gttgtccatt ctcttctcac tcttggtgcg 60
 caaaagcttt tgagtctcta gcttggtatt tcagcttggt acattctcct attaacacat 120
 gatcttgctc ttatgccttc ttcaaggcaa catccttctc ctctattggc tttaatgggt 180
 tgatattacc tacggactgc ctcaattcta gaaaacattt tatatcctag ggtaacatgg 240
 gtgagatact ctttcacccc taccaagatt gatatggtag aatctaagct ggtatgattg 300
 ttttttagaa caatatccca attctcaaac aaaataagac gatcaatctc ctcaactcaa 360
 gacatcaata tgagggggacc gccaaacatc ctggtaggaa ccaagctaga attgga 416

<210> 18551
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18551
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 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaagt 120
 attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagagaaga atcatggatt tcaagtcaca aaatgtcaag 240

aactttttatt gtcaaaaacaa ttacccattt cttgaacata tcctataatt caaagaaaaa 300
catgctaagt cgtacgtgca catgaaattg acccaaaata ttaaactgaa aatacgacga 360
cactaacaac attaacaaat taaca 385

<210> 18552
<211> 423
<212> DNA
<213> Glycine max

<400> 18552

tgtaggatta tggggtatcc atcacatgtg gtactatgtg gcggtcgggc gatggtgcac 60
aacaagtttt ccacatccac aatgcgcgca taaaccaccc atccccctgtt gccacacctcc 120
aactgagctc acgtactccc acgtagccca tatcctcggt tctctcaata ccgggtcccc 180
atcaatcctc ccaagcttcc acaacatcca agcaaaaacaa catttaaaca gcacaagcta 240
tcacagccaa gcaaaacagg gcaaaggcag aaaaactctg ctcaacacac taacccaaat 300
catagctttt ctcaactaaa gaccccagta acaattcctt cgateccaatt cgttaaccgt 360
tggatcgact ccaaaatttt actggaagtc tatagtgcac aagcctacat ttggaccatt 420
ggg 423

<210> 18553
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18553

agcttttatag atttagtggt tgctagcgag aagatcaaag tgggtctgag aagacgcaaa 60
tttgattatg ctactttgat gaataggaag cctggggaaa atggagagaa taagaaggag 120
ggagaaaccc atgttgtgaa tgtcgttcct acatggccaa atttcccact agctcaataa 180
tatcaattct cgaccaatat cagtcattct cattaccac caccctacca gctaagaaca 240
cccaatcatc cataaaggcc acccctaaat gggccacaaa acccgcttgc tgcacatccg 300
aggccaaaca ccacccttaa tacaaatcaa aacaccaatt aggggaaggaa ttnntccaga 360
cagaggcttg tagaattcac c 381

<210> 18554
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 18554

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 gaatttgctt gaaaaccttg ttgttgctct taaagtgcac tttgcagaag atccacaaat 120
 taatcaagtc ttagaagcta tagatcaaga ggtatcaata tataatccaa cttattcaaa 180
 gatttaacta tgatatgata ctttacaag aaaaaacatt gttctaattt aggtacttac 240
 aaatgggtct actagtaaaa atcatcaaac tacaacgat ctgaactaga ggtgagttga 300
 aatttaataa ttaatatatt gacaatatca tttttgttag catatggtat agcttgtaat 360
 gtatccgtac tatctatgta tataataagt tgacatttaa taattaacat gttgaaaatt 420
 t 421

<210> 18555
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 18555

agcttctggt gttcaatttc gagcgtctca atatattatt ggctgaatt agacatccga 60
 atcaaaagtt atgggtgttt atattatcca tgtgcttcaa tgttcaattt ttagcatctt 120
 gatataattat gcagcttaat cgggcatctg agtgaaaagt tatgtcatac gagttagccg 180
 agaacttcgt tgttcgattt cgagcatctc gacatattat ttgcctgaat cggacatcag 240
 agtcaaaagt tatggcagtt taaactttcc atgtgcttcc atgattaatt ttgagcatct 300
 cgatatatta tgcacctgaa tcggactact gagcgaatag ttatgccata tgagatagct 360
 g 361

<210> 18556
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18556

tcaccttttg gtcctcctca tagctgtcgc atgagataac atgctctatt ttcactctcc 60
 actccaagta ggcctacgga tcattctttc ctttaaattg aggaatgatg agtttaatac 120
 catcaattcg gttttgtcta ggaacaccat cattcctctt tctcctcctt tcttcttcat 180
 tatgatcact attctccatt tgatccaacc tctcatggag cgcacatctt cgttggttca 240
 ttaacctctc caaatgttgc atcaaagggt gcatttggaa ttgcgaaagc cccactccat 300
 cattaggatt agtacctgtc atctcaaaca aacaaattaa acgtaacaag acaattatag 360
 ctggtgtttg aatacctcac ccactcaagt gtatcacaca attatggctt ctctct 416

<210> 18557
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 18557

agcttgattt cgaaaatctg caaaattatg cagaaaagct gtcaaattgt gcagcaaatc 60
 tgccaattat gcagaaaaaa aaatggttgt gtagtggttg tttctgctat cacgggaaag 120
 gtagtgatc tcgcgttata gacattatct agcagatccc aacggtcaaa acttagattt 180
 acgtattaga aacctcaat taaaatttca aggcgatcca atgggttaacg aatcggaaca 240
 aagaggattt tactgaggta tgtgggtagg aaaaactctg tggaatttga atgaatcttg 300
 tgtaaagatt tctgctcca ctttggtttt aaggtagttt catgacaaat ggaattgtat 360
 tgtttgata tt 372

<210> 18558
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18558

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 taatcatgaa ttggccaagt cattagttgg acatccatat gtggggcaat tgactaaagc 120
 tgaaaataca cttattgctg atatgacgaa gtccatggtg aagccaagaa acattctgct 180
 aactctgaag gaacacaatg ccaatagctg tacgaccatt aaacagatat acaatgcaag 240
 aagtgaattc cgttcttcca taagaggaaa cgatcttgaa atgcaacatc tgatgaagct 300

tcttgaacgt gatcagtata ttcattggca caaaataaag gatgaagacg tggttcgtga 360
tatcttttgg tgtcaccctg attcagtga gttagtcaac acatgtaatt tgggtgtt 417

<210> 18559
<211> 361
<212> DNA
<213> Glycine max

<400> 18559

agcttttggga atattttattc tgaaaattgc tattcatatt ctggattgat tggcaatttc 60
tgggaataatt ctgaaaactt gctgtaatcc ggagaccact tgatcttcca taatactcat 120
tttgggaacag ttttataaga ctctggatta ccttttcggc ttttccagaa agaaagattg 180
aacaaaaatg ttttagaatt ttaattccga aatgctccac cttccccacg gtaaatcatc 240
catttagcca ttttctttta taaaaccaat acttgaaagt tctttctagt ttcataataa 300
cttccacgca gaattatfff tctctttatt acacctcatt ctttctagtg tcatagatat 360
a 361

<210> 18560
<211> 409
<212> DNA
<213> Glycine max

<400> 18560

gattattgaa aaacatctct ttagttactt tcccctcatg gtgtcaaatt tatcagggtta 60
ggaagccaca aaagaatgta aaactcccaa taatagaaag tggtgtagga actcttgatt 120
tgaatatcat atatttgagg cgagggggaga cctttcctgg ggtatgctat atatatcaca 180
ttgtttttct tctcttttga tggttttaat gctcttctaa ctaacaattt ctggacgaac 240
tcgtggattc tctcctttt tgtaagatcg accgaacagc atcaagcaga tatgggttata 300
ttgcacactt gtgtgttgcc aaatcacttt atcgcaaggg tggtgcaagc aaaatgttgt 360
atcttgctgt ggagtctgcc aaatctactg gtaatgtgag agaacattt 409

<210> 18561
<211> 177
<212> DNA
<213> Glycine max

<400> 18561

agcttgatag taggacttgt atagaggcta gaccttctac ctttaatgat gacctttcat 60
ggggacctgt caacatggag atgcagtcaa aagcacatga gaacatgaga tgggagactc 120
tatcccctaa cgaatattcg caagtagaaa gagctctccc acctagaatt gccttgg 177

<210> 18562

<211> 277

<212> DNA

<213> Glycine max

<400> 18562

ctgactattg actaatactt ctgtttgcaa ggtcacatac tagctctttc tgcgactaac 60
atacggactt gctcaatctc atgacaagaa agcaccacat ccatgacaga cagtgcattc 120
cctcccaaat gaattcataa caccaattgt cacacccaga tcaaaatgtg gcactaccta 180
accatccagg tcgagtataa ctgttccatc tgcgtcaciaa cgtgcatact aattatccac 240
gggcagaaat atcacctgtc tataaacatt atccgca 277

<210> 18563

<211> 373

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18563

agcttcaaag aatacgattc agataacgac atattgactg tcttaacatg ttacagacaa 60
atacaatgat aaaactcaaa atcgaatctc tcaggatgta caaggtgttt tgagagatga 120
gttcgaaggt tgaacaaaat ctacaatcaa cattaatgct taaaaatgct ttgtccacac 180
gtaggtttac tctaatttac actcatcata tacttatcta tgcgaacact tcagtaaaaa 240
gtaaccatag tgactgatat gaccaccatc ctcatcttca tctactggta aacagagtga 300
atgatacatt aatgcatatt atccactagc caaactaaaa tgataaaaca tgaagnttaa 360
cttaatctac cta 373

<210> 18564

<211> 421

<212> DNA

<213> Glycine max

<400> 18564

tgtatttcat atattatgggt gtgcgcttgt tgtaacatgt tatgtttgct actgattttt 60

aattctttga ccctttgaat gaccaaattg gctttcgatg tcttcatgag acttgtagag 120

aattttatcc ttacattca agcactggta tcatgttatt tggaccatta caacataatc 180

aatccttaaa gcattgcagg tttgttatat tgtgaggaca aactgacatc tctatcttca 240

tggtcagttt cttccaagat ccaagcctta tttgcccatg acttctccat aaaagatata 300

tatatctttc tcttagcttt ctacaaccac tgagatcatc ccaaattcac ttttgtagct 360

caagtagttt tcaaattatt gcacacatat gaaactgtca aggcaaacca gcgtctctaa 420

c 421

<210> 18565

<211> 386

<212> DNA

<213> Glycine max

<400> 18565

agctttgaaa tgggtgctaac caagcgaccc gtgcgtatgc acggggttga tactagttaa 60

cataaaatca caatatctat aaaccaatat ggtcagtcta gtttgcataa ggtcattgaa 120

gcaaacacta ttaccattgt tgcgcatggt ctaaaaaaca aaaactaagc atataatgag 180

tagctcactc tatgattagt taaggctcga attctcacia aaggaaacgt atctgatctt 240

ctcttacaag aaattgtatc tataagataa tatttgtgaa aacaatacat taactagtat 300

tttaacgtga atttatatca tttaaagtga actaaaatat gtaaatacat gataaccaa 360

ttattgatac atgttaatta attaatt 386

<210> 18566

<211> 407

<212> DNA

<213> Glycine max

<400> 18566

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tttgaagtac aggagaacta caaccttata tcgcatcgtg gcggacaaaa gtgggcagtt 120

aacttgaatg gtcatcattg tctatgccga tagtattcta cgcttcactg tccatgtcta 180

cacattattg cagcttgtgg ttacgtgatc atgaactact accaatatat agatgttggt 240
 catatcaaac aagcacattt taaaagctta ctccgcacat tgggtggcctc ttgggaatga 300
 agcggctata tctccttctg atgacgcatg gacacttata cctgacccaa tctcaattct 360
 tgcgataggt cggccaaaat cttccaggat aacatattat atggatt 407

<210> 18567
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18567

agctttttatc caaattcctg actcaccata aaccttgacc cagtgtgaca atgtcaatcc 60
 ttaccctctg atgcaaagaa aataggagag aaggaaaatt tccaatcaaa ggataaaagg 120
 agaggaaagg aaattcccaa tcaaagagtg ggataaagca caaagaaaag aaataaaatt 180
 cccattcaaa gaatgggaga aagaaaaaga taaggataag aaggaaggat agctcctgat 240
 caaggatcga aagaaaacag aagacatgtg catatgggat ctctggacca gacaatatct 300
 atacaaatac agaattgtca cctaataaac aaaagaaaca caatgaaacc atagcctaata 360
 agtgagcata tgcctttgat taccaac 387

<210> 18568
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18568

cttgatttan aacaaaatac tcataagcat taagaagtat tccatggcat gagcaaccaa 60
 aacaatgtca tacataaata aaagcacata caaaattgtc ttagaatttg ggcttatgac 120
 ctaactcaat cccacaaaac cagcttgatt gatgtggaac taaacaccaa gcaattaaca 180
 cagcccccaa agatgccgca aataaggtat gttaggggtg accgcaatta aggtgacttt 240
 ccaacatttt ctgaaaacag tatctttaat ggatttgaca ctcaatgtac tactgccttg 300
 atccttacca ccaaattaaa taaaccacat agtcatcatt tacgttaaga atttaaaatc 360
 atatcaaaca ggaaatttat ttataaaatt ccacaatgaa gctagtctta cacaaaa 417

<210> 18569
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 18569

tttcttgcca gattttaaac tactatacgt tgtattaaga aatgtttggc acggctccaa 60
 aaccctacca ccacctacat caacgaattt tataagacaa tatcttatca gcatcaagta 120
 atacatagct gtttattctt caatcaatca gaaaagctct ccaaatacaa atacgcttca 180
 ccagaagaac gcgactgaaa caaactatca caaaaagtgg catccaagct tctatatatt 240
 gccaccacgt tttacacgat agggatgtgc cctacatctg ccaccactga aaagtataag 300
 gcagatgtca aacctcaaaa gtataaatc ggaagaaaaa ttaacctacg ttaagccatt 360
 aaaaagaaa 369

<210> 18570
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 18570

cactatataa tactcccgct tctctcactt tatttaatat tatacattac attacattta 60
 ttgattatg ttgctgtaac tgtcattatt tttttaccat cattctgtca aaaccagttt 120
 ttacttcttt gtttctcaat tattaattaa tgtgtatttg atacaacaac gtagtttcta 180
 ttatgagggg tgtgctgcag gtcccacaaa gagctagtaa tgttccaaac atgcttattc 240
 tttgttttta attttcaacg aattttatttt tttcaacttt ctttgcagct cttgattcgt 300
 ggttctgact tacatatgct cctcactgcg gcatgagtaa tgaactttgt atcacattat 360
 cgggtgacaa atatgtataa taactatttg agctttgcc 399

<210> 18571
 <211> 296
 <212> DNA
 <213> Glycine max

<400> 18571

agcttgtgtt ataaaactgg atcgagaagc tagagctcag ctccacacac ccctctcgtg 60

actaagctta cctgcttgag aagctgcctt aagacgatgt ctatagaggg gagagcttag 120
 ctacacatac gtgtctaata gcttatctca cctacttgag aagagaagct cgaacttatac 180
 tacacgtccc ctattctatac tgagctcacc cccatgacaa agggcatgaa taggcgaaac 240
 gaggccttac ttctaggact actcattatg cccagcata catggctaaa tcccta 296

<210> 18572
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18572

cggcaccaca agcatacaaa ctgttactgc ctaagtcgga aagaaatnaa taaggagaaa 60
 tgtgctcgaa nacacgaaat aaatgtcggg gacatactaa atcgcgatga caattttgca 120
 cgaagaatag acaggggctg tcaggcaagc ccacaaaaca ccaaaaccgg cgaaaacgcg 180
 attaggtgtg aaaagagcgg cgaacactga ctatagaaga gaaactagag acaaagaagt 240
 atacagagaa ggaaccgcag cagcgacagg caacaacact gagtaacgaa aggacagtcc 300
 taatgcatga agcacagaag atccggagat cagggaggaa accgaaaaga aaagtaaacc 360
 gagtaaaaaa acgcagaact ggtggaccag cgatatcaaa ccgaag 406

<210> 18573
 <211> 527
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18573

tgctccgaac actaacacct accaasnaca taatcccgtt acgaatagac gatgatgtaa 60
 caagaacnncn cggagaggag catgtgacgc gtagaacatc acaggcaaac aaaaacgcac 120
 cccgggatcc tcaaaagtac acctgcacgc acgctatcta cgcttcgcga gacatccgta 180
 cgcgacggta tccttacctg tgcgacacca caacaccaca gaccacttga gaaaaccatc 240
 atacgcgact gctcaggcgc ttatggcatg cgcaaccaca tcgttagagc ataatgagga 300
 cagcattaga caagcaaccc gctggataaa ccctctgcaa gatcccatat aggcctagac 360
 aagacacaaa cttgcaaatac aggaaccatg agcccagaga cccacgcaa ggacagtaac 420

agggcgcgca tgaccaaccg acaaccaa at ccaaccgaac caaatgaaga gtagaacaac 480
 accatcataa atgcgagaac tatagacacc ggcgagcata gacatac 527

<210> 18574
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18574

tgcttgatg cctctatctt gcttctgttt tggaactata cgtgagtaac gttgttctat 60
 ttgatatggt tggaaacctt cgggttctcc tctgtgctac ttattttgct cacgatgaca 120
 ttaatgagtc atgaacccat cttattggag aggccggaga tgttcgcgca cgtgacgccg 180
 aaccactagc atggcatcgc tatcatttca gtcagagaaa gcggcggttcc caaaggcatc 240
 cacgacaaac tttaaagtga gaagtgcgat gtcgtccgag gagagagaaa caaaggggtg 300
 aaagaagaat atgaacaacg tatacggaaa cttatatata tatatatatg tatatatcta 360
 tatatatata tatatatata atacg 385

<210> 18575
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18575

tatcagtggg gtactgttaa tacatgtctg aacgctcctt atatgatgct aggtagagtg 60
 tggatacaaa aaattaaaat tcagaggaat atgtaagaca tggaaatgca attatattag 120
 ctaatcgata ctatatatta tttgaataaa ataatatcaa tttggctctta acattatctt 180
 gatgatgtgt gaaatataat caacattatt ccatggactg ggcggatgaa ataagtgtgt 240
 aactcttcaa ttcgcctcta agtgaagtcg gttatatctt caacctactt cttgctgtat 300
 cctccttaat gctgagtga gatacacaga ccgatggact cactttgccg tgctatttga 360
 gagagagaga gaggaggacc atgtgtagga caaatgtgat aaaaatggac tacaag 416

<210> 18576
 <211> 89
 <212> DNA
 <213> Glycine max

<400> 18576

agcttctaaa ctttatacaa gaatgaagtt ctgataccac ttgttggaca agtggcctca 60
gatatcttaa gaaggggggg ggggggggg 89

<210> 18577

<211> 426

<212> DNA

<213> Glycine max

<400> 18577

gtgcatatga tctatttgc tccagctcgta tgaggtagt cagaatgatc gaatcatttg 60
tctttgtatt cttatcacat agatcggaac cttaaactct gatatgccat attcatcaag 120
gcactattcg agaagtacac tgatcatctc tcctctcacc tcatttttgc atcccatata 180
tatgtaacat cttgaatctt ataaatctgt gaaagacaat gacgttatga ttctctctca 240
ccttcatttc aagaatttca ttaataaata tgatcctaac cggactcgtt gactctaccc 300
tggaaccgg ctgcataaga tttaacaatc cacttcgatc ttgtccatac tgctcaaaag 360
tgagtttctc ctcagatacc catgagaaga ctacactcga atctaattct actgtcacat 420
taaaag 426

<210> 18578

<211> 376

<212> DNA

<213> Glycine max

<400> 18578

tatgcttgaa atgaggaagt gtacaagggt gaaacttact gctttttattc gttgaccaca 60
gagtatacc tggagatatg tcgcggggggt caggagacct tatggatgac aggtgggggtg 120
ctattgcca aaaccaagct tgaccaatcc cgaccaacc cgggcatagt cagtcagtga 180
gaacctgtga tgtacctaa catgagagct cctggcagtc aacagataaa aggaacatag 240
accacaaagc aaggaggctt gtgtgggtggc tggccagctg tgaactttga ttgatatatg 300
ggatatggcc tctggtaatc gattaccaac ggtgggtcat cgattaccag gcttaataat 360
gaatacagga gactaa 376

<210> 18579

<211> 418
 <212> DNA
 <213> Glycine max

<400> 18579

acagcttctg gaggaagtag acaaaaatga cagttgtcat gaagtgacaa ctaacagggt 60
 catcctaaag tggtcattct caagaacctt tctgatgagc attttgaggt aacattagaa 120
 tggttaattct gatgttagct gagaaggat ccatacttga agtatatcct ttagatgaag 180
 tcaactgtta tgtctttctg aagtaggata gcttcatcaa tcttaacaca tcttcacagg 240
 ttaaagcatt cttaagtaga ttgcttcata aggttaaagt gaagcaacag ctggttggtgt 300
 gttagtgttc tacctaaggt tagactatct aacgtatcca atcttcatt ttggtgatcc 360
 atatcagatc ttctcatgga cgacttcaac tttcaacttg attgcatttt ctaatgca 418

<210> 18580
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18580

agctttacat tactcctcat gcttctcacc atgtctaata aggttcgatt tcttcgttct 60
 gccacactat tatgatctgg agaactatgc atagtgtatt ggacaacaat cccatgttct 120
 tgaagaaatt tcgcaaata accctggtgct tgtccatcct ctgtgtatct accataatac 180
 tccccacctc tatctgatct cagatctta atttgttttc cacattgtat ctcaacttca 240
 gccttaaaaa ctttaaaggc atctaaagct tcattcttag aatgaagtaa gtatagatac 300
 atatatcgtg aataatcatc tatagagggt atgaagtatt tcggacaata tgcattcatg 360
 tctggacaac atatgtcttg tatgtat 387

<210> 18581
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18581

cttgcatctc gcgcggtgtt atgctgtggt aaaaggtttt ctatggccag aaatgagcct 60
 tcaatgctgg gaggtgcact gccactgcga ttgggtgcgg cattctttcc accaccttgg 120

aacctatggc ccttcagaag tataaccata tcctccgctg ccatgttacg agacgatgaa 180
 ccaaaagctg cagcttcctt gtgagaaggc catttacccc cagcttccga gattctaatac 240
 agactctcag ttgccatact actgaaagat tagctgcccc cttcttttagt aatgaagatt 300
 acaaatatca cattggcgcc taaagaccac ccaaaatcgt caagtcagta tgtattacaa 360
 gacatttacc tcaacaacct tcatt 385

<210> 18582
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 18582

agctttatac aaagcatctg gaggccttga ttgaattaca caatatgact gggacctttg 60
 caaggaatat tcagcactta tttctgttt ctgatgtccg gtttttaatg gatgtgctta 120
 aatctgtgta cttgccttat gaatcgttta aacagaggta aaagcgtatt ttaattttaa 180
 gcataattga aaaaaaatga ttaattaagt ttggctgatt atgccttttg gcatttggct 240
 tcagtattat agaagaattg ggtgggtcta tgggagagag cttcatatct cacaatatat 300
 tgtctcaaat gtataagtat gaaataatag gaacagatag ataaatttta ataatccact 360
 ggccttatga tatgtcatgc tt 382

<210> 18583
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 18583

tattctatct aaaggaaacc ctcatTTTgt gtgtgatgct cgagtgcttg ttaagcctta 60
 caaggagaat ggcatagtcc catacaagta caggcacccc ctctttctac tcttatgtta 120
 tctttttttt gtatttgta ttcccttgag tttgttttga atgtgctcac tattgtttct 180
 tgtgatttgc aggaggctgc agcatcatca ggtagattga ggagattttt caccatgtgg 240
 tactcctact ggattagatg ccatagacca ccaatttgat ctttaacttg gtagttgaac 300
 cttccatttt gttgtctttt cagattgtgt tggtgaaacc tactctactt aacacgtgta 360
 ctgttttaat tg 372

<210> 18584
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 18584

agcttatttt ttgctgtctgg ttggtacttc caatgttcaa tggagcggct tacatatatg 60
 agaattatgt gaggcaatac ataaagaata ttggaacttc caattattct gatgagtaca 120
 agaaggctct tcacatgatg accttcgatg caaggaaagc agttgaacgc tataacgata 180
 gatatggccc tgatgccttt gatagagtag tcagagcggc atgatacaaa actatgaatt 240
 gcttcacctc aaagctcatc tatatatctg tgtttttaac gttttttttt gttaactttc 300
 atatgatcag gctgaaaaag aagcaaagaa gcgatgagtg agtgactatc gatttgacca 360
 agttggaatg aaacgaa 377

<210> 18585
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 18585

ggctgctcagg cttcaatttc aattttcagg tctatgcata taagagaatg tttgtgtctc 60
 caaagattag tatctaactc tcaaccagaa tactctcagc actcaatttt tttatgtaac 120
 attataaaat tacttttata aaattcttaa gcttgtttat catgagaatt aacaaattta 180
 ctatatatga gaaagtttgt gattagattc tccctacata tattatatat ttcttttgaa 240
 attgggtcaag tgtagtagtc ttttatttta aagggtctaa ttaactagct tgtggctatg 300
 tgaattccta ttctcagatc aagtatgtgg ggaatgagca agacaagga agcttacaga 360
 tggaaggatt gaatctaag gacaaaactt tgtctgttca aggagctcgt atctcgttta 420
 g 421

<210> 18586
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 18586

agcttattta tatatttaca catatcaaat atatataaca caccactata caaatacatg 60
 taatactaaa tatatatata tatatatata tatatatata tatatatata tatatatata 120
 tatatataat tataataaca ataatagataa atatattatt agataaatat tatatatata 180
 agtacaaaaa aataattaaa cgcattatat atatatgtga gtaattaaat ttattataaa 240
 tattaatata tatatatata tatatatata tatatatata agtaattgaa cgtactaaaa 300
 gcattgagat aaatatatat atatagtatt taaacacatt atatatatat atatataaaa 360
 aataagaacg tgtgaaatat a 381

<210> 18587
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18587

tgggttcgagg tacttaccg ttgaagatcg aagaacgatg aagaacgaat gaagaacgtc 60
 gaagaacggt tgaaaccttt gcgagattcc tcacggaaaa cgttacggaa acgtttcgga 120
 agcgcctcgg cttagatttt cttcacggaa acaatttttc caagcaaatt cgaaagagag 180
 agaagcgctt aaggggctgg accccttcct tcttcatttc ctcccctatt tatagcaaaa 240
 taggggaggt gggttgccgcc cagctcgccc aggcgagcag gggtgcttcc tccagaagca 300
 accgccttct ggaggaatct tctggagggc ccaagtgggc ctgggtgcta tttgcacccc 360
 catttttact atatacacc ccct 384

<210> 18588
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18588

agcttatttag aacaaaattg cctcaatcat ttccaaatat gcatgtgaat tacgaagcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaagc 120
 attatgatga tggatggctc aaattctcac aaaggtaaac tcatacttt caaattgagc 180
 tttcaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaag 240
 aacttttatt ttcaaaacaa ttaccatttt cttgaacata tcctataatt caaagaaaaa 300

catgcaaagt cgtacatgca cacaaaattg acccacaata ttaaactaaa aatccgacga 360
aactaacaac atttacttat taacaca 387

<210> 18589
<211> 410
<212> DNA
<213> Glycine max

<400> 18589

aataagactc ttctcttgat gaagggaaaa ttatatgtcc atgtgctaca taagaaagga 60
cgatagtttt tcgagttgaa attgtgaaac ttcaccttta caaagatgga ttcatgccta 120
attacatggg ttggattgat catggtgaaa agatgccaca tgttgataat catcacatgg 180
gtgttttaag tagtggtgta gatgtggcct aaggtgaacc atttatgtta atgcaggaga 240
tgatgtttga tgctcttagg cagcccaaaa tatttgaagc accaaaatca gataacatgg 300
aagagcctat aaatgaagaa gctcaaggat tttataatat gttggtagag gcaaataacg 360
tcattgtttg aagggcatca gtctctaagt tatcaatgtt cacttatagc 410

<210> 18590
<211> 689
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18590

caccatcctc cgacgtactc accaaatant acatantag tntaatagcg gtnnntgtag 60
tagtantgan cntatcgtct cactgntgta ncanannann aaaaaancgn nantcacnnn 120
anccaagaat gatgatantc nnacatttag ggtaccgtcc ngatcagagc acaancctga 180
nngcncncan acngcnanaa catcccgtca accgcagnng cggatnanct ncatagnaac 240
tgacgtacac ctgtcnancg cnactagcat agtacttagt antagaggac acgtgggtgt 300
agcactatca cagcgagca tattgggatg ccaagacttg gcgctccaca caccagatca 360
ctgaacactt cgcacgtcca gaaccaatga cagcaggagg gaacacacac caactctgaa 420
gcaggaagca atgaaatgca cgcgcgacca cagcgagtga gccacctgcg agacatgacc 480
cgctgctgaa tcccagacaa aaacggggaa aaagcgctcc acaaccagca cgaagagcca 540
caggagaaga cactgtcatg acaagagtgc cagaagacgc acaaagtact cacatccgac 600

gagacaaaac acccgagggg gtaaattccca tgagtaactc gtaaaccatc agcactgaag 660
acacaagcca ccagcccca acccgtggc 689

<210> 18591
<211> 329
<212> DNA
<213> Glycine max

<400> 18591

tgatcaatcc cgaccaacc cgggcatagt cattctatga aaacctgtga tgcacctaaa 60
caggcgagca tctgtcagac aacaaaacaa aggaataaag accacaaagc aaggaagctt 120
gtgtgggtggc aggccagcag taaatctcgt gtgataaatg ggtcatggcc tctggtaatc 180
gattaccaag ggtgggtaat ccaatacaac gcctaaaaat gaacacagga cgctaagatg 240
gcctctggta atcgactacc aagctagaaa accagatcag gaagctaggg gagcacctgg 300
caatcataac caccggaaga atcgatacc 329

<210> 18592
<211> 384
<212> DNA
<213> Glycine max

<400> 18592

agcttttgct tectccagaa ggttctgat gggcccaggg ctaagtacac cccctaaat 60
tgatcagttc acccccattt tgtgtttttt tggctgatct ccttcccaa tgttgtgaaa 120
ctttacggat tacgcggcga tgagtgttaa gcatctcaat ttgggtcaacc aaagtccata 180
tgttgacaag caatgtcccc agacgaaatt agggatgac aagggtattct caaacctccc 240
cttcatggga acgaggcgtt gtatcaatta tagtcccgte cttgccataa gacaacttgg 300
ctagcccgtg agaggagcac cgtcagaaga cagtatcaca cctttcatcg cgcatggttt 360
catcgacccc aatgcaatga tatt 384

<210> 18593
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18593

ntataagtgc gggctctggga gacgaaggctc aagtgttcgc gatatgtgaa gatgatgttc 60
caagtacctc ggatttggtt cgaccatgcc ctctgattt ccagctggga aattggcgag 120
tggaggaacg ccccggcatt tacgcaacaa gcataatgta aacctttacg gttttaaaag 180
ctctatagtt gggcctaggc tttagagttt tcattttgct aaggctttgt gtcttttgtt 240
tttgaattta taacacaagg atctttcttc atctgttcct ggtctctacc cattctcatt 300
catttgcattg tttacttctt tttctaaaac ggcagattcg atgacgagtc ccccgagggt 360
actaatcct gtgaccgctc tatcaacttc gagcaagaaa tgaatcaaatt ggaagatg 418

<210> 18594

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18594

tgctatataa tgaactttct cttcattgct actaacatta ataatagtaa caaacttctc 60
ttccaacata gcaagatcat gatccaaaac accaagggtgg acttgctcat ttcantcaga 120
gaagttaagc tcattaaaat gggtagacat gatacataag aattcaacta attcaaaaca 180
tgtattacat aataaaattc acataagtgt tttgagacat aaaatacatg tcatacatat 240
gattcattca aataacggtc aatgtatatt gatgttctcc tttggatgat acaccaacac 300
acaacataca aacataatga tgctaataaa atcttaacat tatttggttaa ttaaatatgc 360
accaattagt agtatctatt tcct 384

<210> 18595

<211> 413

<212> DNA

<213> Glycine max

<400> 18595

tgctgctccc ctatttgggg cattttgtgc ctctatctag atgcttaciaa ttgctacctt 60
tgcattagta aaaccaatcg catgctatta tgtaaaatgt aaaatataat aaaagtaaaag 120
aattaaatat gtactaatgg ttagtcaatt tctcatctca ttagtgctga cttgtggcat 180
ttaacgatta tttttctctc ttattgacgg acatacactc actacatgaa ttctaattct 240

acttgcttag gaaggtact ttgactataa taatggttta agtaaataat atataacgga 300
 aaaactataa atgttgtctt tattaaaggg tgacagatac caacgtagtt aattatcaaa 360
 atgaaatata aataagacaa taatggttaga tcactaaggt taaacctttg ttc 413

<210> 18596
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 18596

agcttcatgc atgttgcagtg tgatttactt gaatcttacc tgggtccatat ctgggctgaa 60
 gcattattct ttggaatact tttcagaatg cggctgagat ccccttttgg aattccgttt 120
 attaaatagg aactcatgaa tttggtggaa attcttagat aatgatgtat ggactataga 180
 tttctaatag atatgaatac aatgaatgaa gactatttct gccattgata cattgatccc 240
 cccctctccc ttgtcgcgtg atgactgcat tactatcttt gcctggctca gagcatggta 300
 caaatatgtc tgacataaat aatggcctac tccacgtttg tataagttat atataattca 360
 ctacagcatg ca 372

<210> 18597
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 18597

tgcagaagtt tggatatgta caatcttatt gacaagtgtt atttcggata gaagtattat 60
 gtgaaattat tgacaaaagt gatggatgca cattctatga caaaagcaac ctgcctttca 120
 tttttatatt atattatttc aaaagccacc tcattgttta aaaagctttc atattttgca 180
 tgaaaaaaga gaggtataaa ctaagataga cagtgatgat cttttatcat gttgggtcag 240
 ataagagact attagacagt tgcaaaagga agctgccagg cttgaatggg agttacgaag 300
 ccctgacctt tctgtgaatt catgtctaag gtcattgcta gctgaaaagg agtcgaaaat 360
 taggcaggta caaacttcat tcttttgtct taacgtttat gtgttaca 408

<210> 18598
 <211> 382

<212> DNA
 <213> Glycine max
 <400> 18598

agctttaata ttccttcgat acttggttta accttaaaaa aataacacat tctataatac 60
 gataaacaag tgcttaatat ataacgtggc ttacttctaa atgtaacgtt aatttagttg 120
 gtagtggtac aaatatatta atagtaacgc catttcatca ttagctcatg cagaaatgca 180
 gatcatacac aatgaccata acaatttcaa tgcagcatgc aacgtttcta atcagacaac 240
 accatcaaaa attccatgtc atctatatga cttatttata gggcttcaaa aaaaaaaaaag 300
 aaaaattaca tatatgttac ttactggaaa gcaaaacaca aaataaataa atgatgaagt 360
 tgctaaaaaa tgattgcata tt 382

<210> 18599
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 18599

tatgctgcaa acatctacaa cagacctcct caacctcagc agcaaaatca gccacaacga 60
 aacaattatg acctctccag caacaggtac aatctcgggt ggaggaatca tectaacctt 120
 agatgggtcga atccttcaca acagcagcaa caacaacaac agccttattt tcagaatgct 180
 gctgggtcaa gcaaaccata cgttcctcca ccaatccaac agcaacaaca gcaacagccc 240
 cagaaacaac aaacagttga ggctcctccg caaccttccc ttgaagaact tgtgagacaa 300
 atgactatgc aaaacatgca gtttcaacaa gagactagag cctccattca gagcttaact 360
 actcagatgg gacaattggc tacacagtta aatcaacaac agtcccagaa ttatgacaga 420
 t 421

<210> 18600
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18600

agcttttctt tcacaatcaa tctgtctact gactaacaat tctaattgca agttctcatt 60

cttgttcttt ctttgtctaa catacacact tgctcaaact catgaaaaga aacacagatt 120
ccatcacaat catgcattct attcaaaacc aagtcataca ccaattttca caaaaagata 180
aaagtgtttt actgctatgt catcaaaatc aagtcaaact gttccatatg cttcagaata 240
agcaaaccaa ctactaaaaa ataaaactag cagtgtatat aaacataaaa gaaatactgt 300
attgaaacca taagcataat aataatgac cacanagcaa aataaaaaaa acaaatatca 360
tcaggaattc aaaattcctg tg 382

<210> 18601
<211> 414
<212> DNA
<213> Glycine max

<400> 18601

tcttattcac ataacaccaa tagtattcca tttataagca gagattgacg attcaaatta 60
catatttata agagaccaac caaacacaaa gcaaccacag cttaaaacac ccgtaacaaa 120
tcctagaaca tttgaatttg caaaggcggg ccatgaccac tttattctaa aacttcaaac 180
acaacacata cttattattt attgatacat gtattacagc tatctctgct tgaaggttat 240
gcatgttgat ctcaattgca gctgcatggg tcgcaagtgc agtttgatcc acagttgcag 300
ccaccgttct cagctgcaac acccatttca gcaccctcga attgggcctt caccggccca 360
acacccaaaa ctagagtctc atttgtgac ttctcaacgt agtcaaaaga gtac 414

<210> 18602
<211> 375
<212> DNA
<213> Glycine max

<400> 18602

agcttgcttt ttgcaattct aagacactag agagcttcca agtatatgac atgtcccact 60
tgtacttttt ctatctaatt tgcactctgc aaaatcagaa tatgaaaaac ctgttatgtt 120
taaggaggta cctttaggat accacataag caaacactta gcatgatatc caatctactt 180
gcagttaggt agagaagtga ttcaatcata cctctgtatc ttgattcatc cactaattta 240
cctttctcat caaagtcaag gtaggttgat gtagacatag gagtagatgc ttctttgcat 300
tttttcatac caaatttctt tatcggtttt atgcaatatt tggtttgact gaggaaggtt 360

ccatgtttca attgc

375

<210> 18603
<211> 416
<212> DNA
<213> Glycine max

<400> 18603

tgcttgtggg gcttctatgg agactggatc tttgagcttc aatgggggtcc tttaatggtg 60
attttccacc atggagatgt agcggaagac aaaggaaaag aggtgagagg aggcgccatc 120
cattaaggaa taagtcatgg aagaaggagc ttggagagga tgcttcaatg gaggaaaaga 180
aagagggaga gaaagagaga ggggggagca cggaattgaa ggaagaaaaa gggagagaag 240
ttgaactttg agttgtgtct cacaagactc tcattcatca aagttacaac aagtgttaca 300
catgtttcta tttatagact aggtagcttc cttgagaagc tttcttgaga aaacttcctt 360
gagaagcttc tttgagaaaa cttccttgag aagctagagc ttagctacac acaccc 416

<210> 18604
<211> 381
<212> DNA
<213> Glycine max.

<223> unsure at all n locations
<400> 18604

agcttgataa cacgcagaga ctaacgtcgt cttttgtgac cttcgtcaat tgcggccgac 60
aagcctgttg acacgtggag atttacgtca tcttcgcgc ttacaagatc tgtcatattg 120
agttttgagt cacgctgacg ggcggaaata ctgagtagt tacccttata aactttttgt 180
tgtttgtaag acgaaaagcc tgatagcacg cagagactaa cgtcgtcttc tgcgaccttc 240
gtcaatcgcg gccgacaagc ccatttaaaa gcggtgattt acgtcatctt ccgtgctcac 300
aagatctgtc atactgactt ttgagtcacg ctgacgggcg canatacccg agtggttate 360
ctaataaaat ntttgctgtc t 381

<210> 18605
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18605

nttcgtctta cagaatgcaa caagtttata cggataacca ctcggttatt tccgcccgtc 60
agcgtgactc aaaagtcagt atgacagatc ttgtgagcgc ggaagataac gtaaactctcc 120
acgtgtcaac gggcttgtca gccgcgattg acgaagggcg cagaagacga cgtagtctc 180
tgcggtctat caggcttttc gtcttacaga taacaaaaag ttatacggga taaccactca 240
ggtatttccg cccgtcagcg tgactcaaaa gttagtatga cagatcttgt gagcgcgga 300
gatgacgtaa atctccgcat gtcaacgggc ttgtcgcccg cgattgacga agggcgacga 360
agacgacgtt agtctctgcg tgctattatg ctttctgact tacaga 406

<210> 18606

<211> 386

<212> DNA

<213> Glycine max

<400> 18606

agcttggtct tgattttttc taagttcttt aacaagcttg gaacaatata tttgtccttc 60
atttaactgt ctttgggctt ggcggccacg atcaacaaag tactttgggc acctatgtta 120
aacaaatggc ctcagttatt ttaagaaggg ggggttgaat taagatattc caaactattt 180
cccctaatta aaaatctatt tcacttttta ctcaagttat gaattccctt aatgacaatc 240
ttcttaaata ttaattcaaa tgaaacaatt tgaatatgaa tataaagaaa taataaataa 300
aggagattaa gggaagagaa aatgcaaact cagttttata ctggttcggc cacacccttg 360
tgcctacgtc cagtccccaa gcaacc 386

<210> 18607

<211> 410

<212> DNA

<213> Glycine max

<400> 18607

tctagccaaa tggacttacc ttgaattaat tcctttgata gcccttttga gccttgtttc 60
cctttccttg ttttgaagct cactacaagc ctttaagtga aaaccatgat attaccatat 120
ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240

acattgtata ttggtttaat gttggacatg ctgaatgaaa tgttgtttct caaaggctaa 300
 aaaaaaaaaa aaatcgaaaa aaaaaaaatt cggaagaaaa gaaaaaaaaa aaataaagct 360
 atatagttga gtgaataaga tcttaaatgg cacaagaatg atgaaactct 410

<210> 18608
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18608

agcttttagca tggcttctgt gatagaagcc atttgatctt ttaaggccga taggtcggcc 60
 ttcattctgtt cttgcactcc ctcttcgtta tccatcttac ttctggatcg ggtgttatag 120
 ggggtgccttt gcgctttttt agttatgggtg agttccctaa agaaacaaat agtagtgagt 180
 atgccaccaa aacatgaata tgctaataaa tgatcagagc acttggatcc acctcaaggc 240
 ctttttagac aacgtgatga gtttcagaac ttctcttttt ataaaaagga aaaaaagctt 300
 ctatctagcc aagatcatatc aaaagtgtta caacagaacc taacggtttc taattatgtg 360
 ggccattaaa tctatcatgt gttgaca 387

<210> 18609
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18609

ntctagctnt tcattgggtgt attttgatct ctttttgatg ctctaaaatg tgggaatgtg 60
 ctcaaataatg tggggcaatt ttggtttgtt ttcttgcttg attgggttga attgggggtt 120
 tgtatgggat ggccttaggc ctataatgca ttttgaagca atggggcatg ccacattgtc 180
 cccgttctct tgctattgat gcctaaacgc gcgcccacca agtggttcggt gaaatgcctc 240
 aatggcatta gcgtgtgact tttgtaagga aacaacccat ggggcatttt ggtttgtaca 300
 tattttctat tttttgggac atgtattcat tcccgaataa ggctagaata attgcctcac 360
 atatatacta ggcctaggaa ccaaagttct tatgcaaaag aacacaagag gaggtgcatg 420
 tt 422

<210> 18610
 <211> 392
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18610

 agctttgagc caaaatcctg actcactata aaccttgacc cagggtgaga atgtcaatcc 60
 ttaccctcgg gagcaaaaaa gaaaagaagg aaaatttcca atcaaagagg aagcaaaaaa 120
 aaagggagag aaggaaaatt tccaatcaaa ggaacgaaaa ttccctatca aagagtggga 180
 gaaagcaaaa agaaaagaaa gaaaattccc aatcaaagaa tgggagaaaag aaaaaaaga 240
 gaagtaaaaa agaagaaggc tcaagggta aagaaaccag aagaaatgtg cagagaggtc 300
 tttagaccgg acaatatctg aacaatacag aattgtcacc aaatgaacaa aaaaaaggaa 360
 aggaaaccat gacctanaat ggtcttctcc ct 392

<210> 18611
 <211> 424
 <212> DNA
 <213> Glycine max

 <400> 18611

 ttcgacctct tgaaaaagac gctaataatt gcaccagtta tagtggctcc caattagggg 60
 caagaatttg aattaatgtg tgatgctagt gactatgagg tagagtagta ttaggacaaa 120
 agagaaatgg aagatttcat gctatctact atgccaacaa agtgctaaat ggagcccaaa 180
 ccaactacac aacaacggag aagaagatgc tagcagtgtt tatgcccttg aaaatttttg 240
 atcatatctt gtaggatcaa agatcattgt gcaaactaac catttagcta taaaatatct 300
 actcgctaaa gcggattcga agccaagatt aattagatgg gtcctgctac tacaagagtt 360
 tagtttagag atttaagata aaaatgggtg tgacaaccta gtagttgatc ttttatcgag 420
 acta 424

<210> 18612
 <211> 365
 <212> DNA
 <213> Glycine max

 <400> 18612

cgagggcctc ggcaattacc cattctcaga tttggcggat ttatgtctcg tgcccaacat 360
cgtcacccct cccaagttca aag 383

<210> 18615
<211> 423
<212> DNA
<213> Glycine max

<400> 18615

tcttgctgat gtcatagtct tgaagtatgt ctatgatacc aaaaaacaaa accacctcat 60
agaactctcc aattgggttct cctacaagtt gtaattcaca accacttctc ctcaccgtcc 120
tttcagccct tgctggcatg ttcacccccca atttgatact cgcccaactg ctaacacaaa 180
ttagatagat gtaatatcca acaagacatg acttaagtaa taatgggtcag cgggagctcg 240
ggaggaggtt ttaagataaa ttcgtagaag caaggtaaaa aatatacaac catattaaga 300
aattaaatat gccttacatc atgttgaaat attaattttt ccaaattcaa ttgaacttaa 360
ttatgccaat gtcaagatga aaacaaaatg tgcattatat tggcaacctataataagaga 420
aag 423

<210> 18616
<211> 384
<212> DNA
<213> Glycine max

<400> 18616

agcttttgtc actccacca aatttggcct tgacattaac cagacttaag acagccgaca 60
acagcgtcaa ggaattcttg caccocgaat acaaaggctt ctttgagtca ctctgcaatc 120
cttcatacac agaggcatgt gcttgctgaa aagactcttg tccaagggtca caaatcatgt 180
cctccaagcg atctcccat tctacatcaa acgggtcaga ttgggggcttg ccttgcattg 240
ctgtcatttc accatgccat atccatgtcg tataattcct cttaattcca tcacacaata 300
gatgttcccg tatgtcatcc agtatttgtc ttctatcggt caaacaattg atgcaagggc 360
aataatattt tccatcttca tccg 384

<210> 18617
<211> 415
<212> DNA

<213> Glycine max

<400> 18617

tccatcaagt ggtatcaaag cacaagagct tcaagtatgt gctctttaa cctccattaa 60
ttttttgctt taccttctct tccattgctt tttcttcatt tttctccatg tatctctca 120
catgtcttgt tctaaatggt gttaacatga ttctttacag tttccaccga ttaaacttgc 180
tatagaagct agatttgatc ttctatggct caaatttctt gctcttggtc ttgaaccatg 240
aattgtgttg agtttaagtt cctttgactt ctgtcttggt attttttgtg gctgaaacct 300
aaaccataaa atccttacia aactattaat gtagaagacc acctcataaa tctagagtga 360
cttgatcacc tattgtagtt ttctcataga agtcatgtct agtcatgaaa cttgt 415

<210> 18618

<211> 383

<212> DNA

<213> Glycine max

<400> 18618

agcttgccac ccagctcgcc caggcgagct aggttgcttc ctccagaagc aaccgccttt 60
tggaggaaca tcctggaagg cccaagtggg cctggttgct atttgactc cccattttta 120
ctaaatacac ccccttgctt ttttttgctg attctttttc cataacgtta cggaaactta 180
tgaattacgt aacgatactt gttttccttc cataatgtta cgaaacctta tggattacgt 240
aatcatccct tttttgcctt ccggaatggt acggaacttt acggattgtg cattaacact 300
tccttttaat tttcgacatg tcatagaact tcacggattg tgctacaatg ctttcttttg 360
acttccagca tgtctcagaa ctt 383

<210> 18619

<211> 414

<212> DNA

<213> Glycine max

<400> 18619

tcataacaca gtgtcgcaac ctacccttcg gcgggagggc gacgcgtgac tcgcgggatg 60
gggtgttcac gaaaggaata cgcgcgaggt cgccaccaac gtttatttga ggaaaacgtc 120
ggaaaaaccg gaaaagacga gatctacgaa ctttttagtg aaagggttcg gagttgtatt 180

tacgcacggg gaaggtatta gcaccccaca cgcccgcccc aagggacggc agcctttaat 240
 cgaatgtgca aacatgactt tgatttttat gttccctttt atgttcttat atcctttata 300
 cccttttttag attttttctt ttttttgtgg tcgacaaggg tgtttccctt tgctcctaca 360
 tattcctcaa tttgggatga gaaaatcaga cctacgtagt tctttcggaa caaa 414

<210> 18620
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 18620

ctgcttcttt caatcgggtc catttaagtg gctttcagtc atccatagag ttctctctat 60
 cacttcttgg gtctattctg aaccattga caccatccat cttattgtgc tggctcttaa 120
 agtggtgtat gatcccaaac gttcccgaaa tcataatgtg gatgatagga atatgctagg 180
 gcatcatcta ctaacctcta atcattgtcc acatactgct gcctactgga aaaatctcat 240
 tgaaccattg ttgggatgcc acagatgcct tcgccattct ctctaaccaa caggagctcc 300
 actatttgcc ctactgctaa tggcacta ttcatcacc ctcaacatcg acaaccgagt 360
 atcatcttct agtatcttgt cact 384

<210> 18621
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 18621

gacctataat ctacgctttg acgtggacaa agaaaaagtt cttcagatta ttttgagcgg 60
 tggaggcagt ttatatccga ttgaccatg aaatacgcac ttgtagccga cgagtacggg 120
 gtggacgata ctgtctgtga aaaataccgt atcaacaagg ataaatgggc ccattcttgt 180
 cagaccaca tggatcccta atgggaggta tgttctttgc aatttgaatt tatctacact 240
 aaacattcag acattataat agatgggacc attcttttgc tcattatatg ttagattgtg 300
 gtgcgatgta cgtacaaaa cacacgcat cctg 334

<210> 18622
 <211> 372
 <212> DNA

<213> Glycine max

<400> 18622

agcttgtgtg aagagataga caaaaaaaga cttagaaaat tttttgcaat tgtctatccg 60
 ctaagcgcac agaccctga ttggttggt gaatagttca gctaagcaca tatcattgcy 120
 ctaagcccca catcttcaca gtaattgaat tttaactagt gggcttagtg tggatgatgt 180
 gctaagcacc acttcttcct gggaaaaaat ttatggtagc agcgctaagc cccacatcta 240
 ttttgtaact tgagttttta agctgggctt agcaggccag gaggcgctaa gcgccaatct 300
 cttacaaatt ttgaattctt ggaagtgcac taagcgcgcc tattgcgcta agcctgaact 360
 actctttgta ag 372

<210> 18623

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18623

tcaatggagg anaagaatga gagagagggg gggcactaaa ttgaaggaga aaaagagga 60
 gagaagttga actttgaagt gtgtctcaca agtttcacat tcatcaaagt taggacaagt 120
 gttacacatg tttctattta tagcctatat cactaactaa atgaaagctt ccttgaaaag 180
 cttccttgag aaactttctt gagaagctag agcttagcta cacacacccc tctaatagcc 240
 aagctcacct ccttgagaag tttccttgag aagctatagc ttagctacac acaccctct 300
 aatagctaag ctcacctcct taagatgaga agctaaagct tagctacaca caccctcta 360
 atagctaagc tcaccccatg ccaaaatata tgaaaatata aaaaaaaaaat ctctacta 418

<210> 18624

<211> 374

<212> DNA

<213> Glycine max

<400> 18624

agcttgccct gaccgaaggt ggtcatgaag tccacgtage ctctggtctc gactctcacc 60
 tgcaaagccg aggagtggac ttgtgtgggg gtggacagta tttggtgaga cctcaagttt 120
 ctggaaagtt ttctagtaca agatatcaac ggaactgcct tggtcgatga ggaccctgaa 180

caccataaag tttgctataa tgatgaagac aaccacaggg tcattcttggg tgacgaggtt 240
aatgcccttg aagtccttgg ctgttaaagg gatagaaggg agactttgtt gtaaggggtgc 300
gttgacaaaa ttaatgttaa tgtctcaaag ggcacgtaag tgccatattc gagattgggtt 360
ggactatcct ccat 374

<210> 18625
<211> 409
<212> DNA
<213> Glycine max

<400> 18625

tgtacaccac agatgatgca atcttctgta gattattccc gtcgtcgtg aaggacatg 60
ctctccattc gttcactcgc ttacccccca acttgtggac tcgtttatac cttggcagcc 120
tgcttcggca tgtagtttgc caccagccga cccaccact taacatctat agccctcgtc 180
aacatccaac tagagacaaa agaaccatta ggaaccttca tagaatgttt caaaaggatt 240
tcattgaata tctgaaactt ggatcccaca gtagccatgc accacttgat aatagcggtt 300
aagctgggag cttttgtgaa caacatatgc aaaaaaccta catctaatca ggatgagctt 360
cgaaggagag cggccaagta catgcaaag gagaaattgg tcaagtata 409

<210> 18626
<211> 380
<212> DNA
<213> Glycine max

<400> 18626

agcttgaacg aatataagaa acatcttctt caaccttggg gattcttgac tccatctcat 60
tgaagcgcat gtccacttgt aatttcaaag tgtcaaacct ttcaccaaca aaggtttgaa 120
gaccatcaaa cctgtccaaa atctttgaaa gaagagatga atcttctcca tcatgtcctt 180
cttcaccaac atgtcgagca ccttttttca cccaagagcc atcatgctct ttttgataac 240
caaaggatgc aatgactgaa ggccttatta ggaaggatct cttgattgga acataagggtt 300
cagaatcaag agggatgtta aagtgttgaa ggaagagagt gactagatgt ggatagaca 360
atggagcatt caatcgcaat 380

<210> 18627
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 18627

tatgctgcaa atatttaca tagacctcct caacctcagc agcaaatca accacagccg 60
 aacaattatg acctctccag caacagatac aacctggat ggaggaatca ccctaacctc 120
 agatgggtcca gccctcagca acaacaacag cagcctgctc ctctcttcca aaatgctgtt 180
 ggctaagca gaccatacat tctccacca atccaagaac aacaacaacc ccagaaacag 240
 ccaacagttg aggcccctcc acaaccttcc ctgaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360
 ggacaattgg ctaccaatt gaatcaaaa cagtcccaga attctgacaa gcttccttct 420

<210> 18628
 <211> 387
 <212> DNA
 <213> Glycine max

<400> 18628

agcttgtggc aacttagatt attgtttcta taatcaaac atcaaatgg aaatcaacga 60
 aatgcaaaact aggtgcagga agagaaaata gagtgagatt cctagtgtta aaaagggaag 120
 atagaaggac acataggtag gcatggcaat gaaacctgta cccctcaata tccgcttaaa 180
 ctcgccccga ttttgaggga aaatacccaa gttgaaaggg tacgggttca gattcaggga 240
 ttatccaact ttttaaactg ggggttgaga cagggatgct actacctatc tcatactcat 300
 tctcgacccg ccccgatgat gaaattatga aatttttatt aattacttgt taatttttta 360
 taatttttac ataatttaaa attctttt 387

<210> 18629
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 18629

tgaaggcatg taaccacaaa tcttttcata gtagaactga tgcaatccta ccttcccaag 60
 ggaattggat agcagactcc aagaagattg ggccaaagat gcaagagaag gccttaggat 120

tctcatgagc cttagggttag attttggggc catgggctaa gtatgagccc acttatcttt 180
 ctacatatta gattaagggtt tcattaattt ggggccttgt atttaaggct ccataatata 240
 ggtagggtag cctagaaatg taggattttt cagcccttgt attttagggc acctagacta 300
 gtttttgtat tacgggtagt tttgtaattt cacatgcatt aagtgaatat ttgatgtgtg 360
 cgttgagaaa taaatctaata tgaattggga gaagcccaat ccaattataa ttttagagggg 420
 gaggtg 426

<210> 18630
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 18630

agcttctcaa tatattatgc gcctgaatcg gacttccgtt tgaaaagtta tgaccatttg 60
 aatttctcga gagcattcgt tgttcaattt cgagggtgtc gatgtattat gcgcctgaac 120
 cggacttccg tgtgacaagt tatgaccata tgaatttctc gagagctttc gttgttcaat 180
 ttcgagcgtc tagatatagt atgcgcctga atcggactta cgtgtgacaa gttttgacca 240
 tttgaatttc tcgcgagcag tcgtggttca atttacacct tctcgatata ttatgcgcct 300
 aaattggact tccgtttgaa aagttatgac cat 333

<210> 18631
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18631

tctcgatata ttatgcgcct gaatcggatg tccatttgaa aagttatgac catttgaatt 60
 tctcgagagc atccgttggt caattttgac cggctcgata tattatgcgc ctgaatcgga 120
 cttccgtgtg ataagttatg accatttgaa tttctcgaga gcttccgttg ttcaatttca 180
 agcttttctga tatattatgc acctgaatcg gacttccgtg tgacaagtta tgaccatttg 240
 aatttctcga gagcttccgt tgttcaattt caagcttctc gatataattat gcgcctgaat 300
 cggacttcca tttgaaaagt tatgaccata tgaatttctc gagagcattc gtagttcaat 360
 ttcgaccgtc tcgatataatt atgcgcata atcggacttc cgtgtgacaa gtcattg 416

<210> 18632
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 18632

agcttcctta agaaaattcc taaagaagct agagcttagc aacacacaca tctctaatag 60
 ctaagctcac ctccttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
 aagctcacc ccatgacaaa aaaaagatga aaatacaaaa aaaaaagtcc ttactacaaa 180
 gactactcaa aatgccccga aatacaaggc taaaacccta tactactaga atggccaaaa 240
 tacaaggccc aaacgaagga aaaacctatt ctaatattta caaagataag cgggctcata 300
 cttagcccat gggctcaaaa tataccctaa ggctcatgag aaccctaggg ctttcccttg 360
 gatctctagc ccaatctact tggagtcttc 390

<210> 18633
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 18633

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 aaagttatga ccatttgaat atctcgagag cttccgttgt tcaatttcaa gcgtctctat 120
 atgtgatgcg ccttaatcgg acttccgagt gaaaagtaat gaccatttga atttctcaag 180
 agcttccgct gttcaatttc tggcgtctcg atatattatg tgcctgaatc cgacctccga 240
 gtgaaaagtt atgaccattt gaatatctcg agaacttccg ttgttcaatt gcgagcgtct 300
 ctatatgtga tgcgctcgaa tcggacgtcc gagtgaagaa taatgaccat ttgaatttct 360
 caggagctta cgctgttcaa tttcgagcgt ctcgatatat tatacgcttg aatcggacct 420

<210> 18634
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 18634

agcttaaaca ttcaacttcg agcgtctcga tatattacga gtctcaaaca gacatccgag 60

taaaaagtta ttcgtttgaa tttgctcaga gcttcaacgt tcaattttga gcgtctcgtt 120
 atattacggg actcaatcag acatccgagt aaaaagttat tgtcttttgg attggctcag 180
 agattcaaca ttcaatttcg agcgtctcgt tatatcacgg gactcaatca gacatccgag 240
 taaaatgata ttgtcccctg aattggctca aagcttcaac attcaatttc gagcatctcg 300
 atatatgacg ggactcaatc agacatccgg gtaaaaagat attgtcgttt 350

<210> 18635
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 18635

tcagcttcta tataagctga accattttat caatatacac aagttgagtt ttattcacia 60
 aattagagtt tatctctttt atcttagtga gagtgattct cctaaattct tgagtgattc 120
 aagaacacct tggctgtatc aaaggacttt cacaaccttt gtgtggtgcc ctgctggaa 180
 agagtgattc ttccctttct ttcacatca ccttggttct ttcaaaccac aattccagaa 240
 aatccacctc tgcccaaaat tatctcgtgg ccataactcc cattttacgc actcaaatta 300
 agtgattctt gagcctaaat tgaatttcaa aacgagacct ttcacctcgt tttggaatca 360
 cctcatttgg agccatgtag cttcagttat tgccatttct atatttctgt ccagccacca 420
 ctt 423

<210> 18636
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 18636

tgctttacat ctaaagcgaa cacacaattg gcatgctcct gagattcact agtcgatctc 60
 gcaagcaact cgattagact agcgattggt taccacattt cagcgtaaac acaaccttaa 120
 ttagaacaaa atattactag tttgctacta ctatctaaat cactaaaata tatcctttct 180
 ttatgttaaa cctcatatc ctcatcttca ttaaattaca aaattaaaca agtatcataa 240
 tccatacaaa gcatatcacg agaacaaagt taacataaaa acaatttcac caagttttca 300
 aataattcac ccgaataaaa aactagataa actttattga aagccgacat catcttattt 360

caactagaag tttcacttt

379

<210> 18637
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18637

tgcgttcccg agagcattnt tcacttgagc gtttcagcct ttgctttcgt gtagcttagg 60
aaaaacatca tttcttctcc tttctttctt ccaaagccat ttctaacgtc tcaagcactt 120
tctccatcat ccacaaccac cattagccac cacaaactgc cgttgttctc cgttgaaacc 180
ccacatcgag aggaaccctt caaccgaagc ggaatattcc aacttgccctt gcgatttcgg 240
tagagaacga aaccctaate tgacctttca tttttccttc gaggtaacca tgattccatg 300
tttgttcctt gttagtttca tgcttgcctt cgcattcttt ctgactttgg aaccaccatt 360
gcatgtttta cgcttccttt aaaaacctta gagcatagag actntgtaaa cgttatct 418

<210> 18638
<211> 384
<212> DNA
<213> Glycine max

<400> 18638

agcttatcaa gaggatgtaa tttagttatt ttgcatgaat tgttgcaaaa ctcacatact 60
tgagttcaat ttttatgaat aaaaaaatg tttaaagcta attacacact tcaacaacaa 120
ttatatattat tgtaatgaga atgggacaaa ttcaatgaat tattgtaaat tcattttaga 180
atattttctt aataatcttc taacttatta aattaagaaa tattcattgt ttttatattt 240
atcaatttaa taatatggaa taaatttaac gaattattgt acgagacaaa agcttgcaac 300
ttttacctta gtgattcata attataatta ttaatgtgtt gataagaaag gtaggaatat 360
aggtaaaaat gcactacaag ataa 384

<210> 18639
<211> 420
<212> DNA
<213> Glycine max

<400> 18639

ctacgaaaga tgaaggggaa gattccagag attgtgggct ctcacatctc atctcggggt 60
cttcaggtat gcttggttgg atcccttttt ttttcggtc aatttcagtt ttacatactt 120
ttagaggaac ttgcatttta aatcttttgc tttcattttg ttttaactga tagacttgtg 180
tcaagcattg ttcacaagct gaaagagatg cagtatttga agagcttcgg ccacattttc 240
taactctagc attcagcgct tatgctgttc acttagtgaa gaagatgctc gacaacggta 300
atggctact tgaaatatac tttgttattt gtcagtgtca ccttttcttc taattgggtca 360
ttctccattt tcagcttcca agaaacaact agcaggcttt atctccactc tccgtgggtca 420

<210> 18640

<211> 386

<212> DNA

<213> Glycine max

<400> 18640

ttgcttattg gaatttggag gaacttctta tgggtgggtca agaaacactt cgaaaattgt 60
ctggattagt tgggaaagag tatgctccct cacagaaaaa tgcggccttg ggattaaaaa 120
tctctacctc tttaatatta gcctcttctc taagtggagg tggagatttc ttcaagaaag 180
tttgcaattt ggtccccctt tattagattc agatatgggt gttctttctc tgatctatca 240
catctgacct acaaaactag tttgcttcta acattattca caatgacaaa aatgggtccc 300
aatgaaatt tcggtatgtt ctttggtttg gcaacacaaa ttttcattgt gtgcataatt 360
ggttttaatt tagactctac aaattt 386

<210> 18641

<211> 399

<212> DNA

<213> Glycine max

<400> 18641

tttcttcca tggcttattg cttagcggat ggtgctcct ctcacctctt ctcttttctc 60
ttctgctaca actccatggc taaaaatcac cattgaagaa ccttattgaa actcaaagat 120
ccagccacca tataagcttc tcaagcaagc ttccatcaag cggtatcata gtacaagagc 180
tttaagtaag tactccttaa acctccatta tccttcattg gtatttctta atttttctac 240

atgtatttcc tcacatgtct tgtgttgaat gttgttaaca tgatccttta gaatttccac 300
 cgattaaact tgctacaaaa gctagatttt attttctatg gttcacattt cttgttcttg 360
 atcttgaacc atgaattgtg ttgagtttac gttcctttg 399

<210> 18642
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 18642

agcttgtcaa ctctcatcc cattttcttt tttctaattc ctctttaaatt tcgtcaaatt 60
 cagtgtagta tactaccaca tttctctctg ttagtagttt ccttggcacc attatatcag 120
 tgtacctctc ctaagcttct tgagaatgaa acctacatct atcaaattctt gcttgggtag 180
 aggaagaagc aaaagacttt ctcttcttgg aagccatcta aaaatataag atcaaacaac 240
 aaggttaaaa caagattatt caacaaaaaa tagaaaaata aaactaaaaa ctgaattggg 300
 cgcttagcgt agcaggctgg gcatagcgcg ccttatgaaa ttttactcat gggctaagcg 360
 cagtagactc gcgcttagcc taaaga 386

<210> 18643
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 18643

tgccaaggag aagttcaagt tggccgctac acacatccgg aaggagtgtg ccggattacg 60
 ggaagagaat gcaactaccg cgagagccct tgaacaagag accaagaggg ctcgcaagga 120
 agagtatggc cggaataaat tttgcggagc tctatggggt agcaataatg aactcaagct 180
 gcgaagggaa gagagggacc agtcgcgagc acatagcatg gttttgaaag aggagttagt 240
 tgctgtttca aggtcctaaa gaagcttgtc tcagcgttta tgcgagacgg agaccaacat 300
 gctagctatc atcgccaagt accaagaaga gttaggtcta gccacgaccc acgagcatag 360
 gatcgcatat gagtatgccc aagtatacgc agaaaaagag gctagaggaa ggggtgatc 418

<210> 18644
 <211> 375
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18644

agcttttcaca ttaagaatta ttaataattg ttgtataat taaactccaa cagaaaaact 60
catgatctta attctgaatt tcggccttaa ctttcacttg ttggttacca cttttctctt 120
tgaacaatgg tgaagatgat ttacaagtaa aacaagctgc cagaaatata gagttagaca 180
tttctatgta atgctttcag ttcaataacc tacaacataa caatagacaa agaaaactat 240
atcaatTTTT tttttgagtt agctatactt ttatgtcaac attgaattct tagtaaggta 300
ttccaagtta aagcaccaac aaacttnttt gtctgtcttt gatttgtact gtgaatgata 360
tgattattga aattc 375

<210> 18645

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18645

tgtaatcgat tacacaaata ctgtaatcga ttaccataac agattttcag aaaatattct 60
caacagtcac atctttttat gtggttcttg aatggctatc aaaggcttat atatatgtga 120
cttgagacac gaatttgcta agagtTTTT agaacaaaaa ggtcttatcc tcttaaaaag 180
caaaatcggt ttatctctt acaaattcct tggccaaaac acttgtgatt caataaggaa 240
ttatttgggt gctcaaattg ttcaatctat ctctttcaag agagattact tcttctcttc 300
ttctttattc tgaaaaagga ttaagagacc gagggctctt tgttgtaaag aaattgaac 360
acaaaggaag gattgtcctt gtgtggttca gatcttgtaa tanggtttta caagat 416

<210> 18646

<211> 351

<212> DNA

<213> Glycine max

<400> 18646

agctttgagc caattcaaac gacaataact ttttactcgg atgtctgatt gagtcccgcc 60
atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcacg cgacaatc 120

tttttactcg gatgtctgat tgagttcttt aatataacga gacgctcgaa attgattggt 180
gaacctctga gcaaattcaa acgacaataa cttttttctc ggatgtctga ttgagtcctg 240
tcatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300
actttttact cggatgtctg attgagtcct gtcatatatc gagacgctcg a 351

<210> 18647
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18647

ntaacttaat caattcaaaa gccttttgtg cttgttcatt ccacccaaac gcacccttct 60
tcaaacattc ggtcatagga cttgctatag tgctaaaatt ctggataaag cgtcgataaa 120
atgatgcaag accaaggaaa gatctcacct ccgaaactgt tgtagggtc ggccaagtct 180
tgatagcatc cacttttgtt tgatcaacgg atactccatc tttagacacc acatatccaa 240
gaaacaccac actttcaacc aagaaatcac acttttccct ctcccatag agtttttgtg 300
ctcttagggg ctcaaatatt tgtttcacat gagtgaaatg ctctctata gatttgctat 360
acaccaatat gtcatcaaga taaacaacaa caaacttacc caca 404

<210> 18648
<211> 373
<212> DNA
<213> Glycine max

<400> 18648

agctttacag cagatttttag taatgaccct ctaacctaga attaaaataa cttaatgcca 60
ttaacctagg gaattaaaaa aaaacttaat ggctgagtgt aactgaaatt gtggcaacca 120
aaagtcaccc ccaacagcct acaagtcagc caccatttgg tctcccaaaa ggctgatgcc 180
taggttgcca attgggccct tattacaact tgaactaaac ctaactaaag cccttttagt 240
tgattaaccc aaaacatatt tttggtcagc caactttaca aggattgggc cattatttag 300
acaaactaaa cactctaaaa ttgagacaaa gtgggtgcat ttagtctctc tccatttggg 360
ccattatttg gac 373

<210> 18649
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 18649

tcgagaaaat tcaaacgaca ttaacttttt actccgatgt ccaattgagt cccataatat 60
 atcgagacgc tcaaaattta aaaaagaaac tctgagcaaa ttcaaacgac aataacattt 120
 tactcggtatg tccaattgaa tcccataata tattgagacg ctcgaaattt aaaacagaag 180
 ctctaagcaa attcaaacga caataacatt ttactcggtat gtgctattga gtcccgtaat 240
 atatcgagac actcaaaatt taaaacagaa gctcatagaa aattctaacg acaataacat 300
 ttactcggt tgtccgattg agtccgttaa aatctcgaga cactccaaat tgaaaacaga 360
 agctccgaga aaattcaaag gacattaact ttatactcgg atgtcttatg gagtcc 416

<210> 18650
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18650

agcttctcaa acgcttctag agtcacattc atcgattatt acaaattaaa atgtttccat 60
 ccacttcagt gttctccctc attacttaga gaaattaatg atttggtctt gatctaatat 120
 aatggtataa ggtagccaac atataatgca taggatccaa atagtaaaat tgtgtaataa 180
 gatactttat gtatgtttta gtttggtttc ttatgtttta aaagtttcac tttagtctct 240
 tgttctcttt tcactctcat tttttatttg atcctcacia acttcacttg gagacatagg 300
 tgtgagggta acctttntcc ttttatgaac aaatganaat ntgtatgtga caccattatg 360
 gacaacatcc ttatcatact gccaaaggcct tccacgta 398

<210> 18651
 <211> 112
 <212> DNA
 <213> Glycine max

<400> 18651

ttgtactttt cgtacaacac tgtggcggat gattgaggct gggtttcccc atcctaaagc 60

cttatttttaa atgttaataa atgcaactgc tttgaaacgc taaggctgac ta

112

<210> 18652
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18652

agcttgtagc attatgggtgt acccatcaca tgtgggtacta ggtggcggtc gggcgatggt 60
gcacaacaag tttttccaca tccacaatgc gcgcataaac ccaccatccc ctggttgccca 120
cctccaactg agctcacgta ctcccacgta gcccatatcc tcgtttctct caacaccggg 180
tccccatcaa tcttcccaag ctccacaat atccaagcaa aacaacattc acacagcaca 240
agctatcaca gccaaagcaa acagagcaaa ggcagaaaac tctgcaaaaa caccaaccaa 300
aatcacagc ttttccact caaagacccc agtaacaatt ccttcgatcc aatgcgtaaa 360
ccgttggatc gactccaata ttntactgga agtctatagt gcataagcct acat 414

<210> 18653
<211> 455
<212> DNA
<213> Glycine max

<400> 18653

tgcttggtggg gcttctatgg aggttggatc tttgagcttt tatgaggtcc tttaatggta 60
attttccacc attgagaatg gccaaaatac aaggcctaaa agaaggaaaa acctattcta 120
atatttaciaa agaagagtgg atccaacett gacccatggg ctcaaaaatc taccctaagg 180
ttcatgagaa ccctagggct ttcttttagta gctetaaccc aagcctcttg gactcttcta 240
tccaataccc ttggggggta ggattgcac atcccccca ccttggaag gatttgacct 300
cacttattgt agggatttgg tgcctaataa tacctatttt gggcaccaac aaagcacaag 360
gatttaagct cttatgaacc aaaccctcat ccaacaactc ctttacttga ggaataacct 420
caagtccaag aggtgtgaca gttctaacia gtgtc 455

<210> 18654
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18654

agctttgact tgagtcacatca agagattata aatatgttac catggcataa gtttcaaaaa 60
aagatcaatc atcaatcatc tttgaatcat ctatctttca atctttttca acatcatctc 120
tcaaacatct ttcaatcaat ctttcaatat ctttctacag aattttctga ttcatttctc 180
ttcatctttc taaaaagttt ttgatcaaca ctttctcttc caagaaaagt tctttgttca 240
aaaacttggtg ctattcatct ttttcattct cttctccttt ttccaaaaga acaaaggact 300
aaccgcctaa attcttttgt gtctctcttc tccctttgcc aaaagaacga aggactaacc 360
acctgaattc tttgtctct cttctccctt acaaaagatt canaggacta acca 414

<210> 18655
<211> 427
<212> DNA
<213> Glycine max

<400> 18655

actcatgcat gagaacaatt ctcaagttgc gggacctatc tttatatttg gctccgacta 60
gttttccaga ttcaagaata ccatgaagcg atagagaaga catactgtag attacacaca 120
caacacaaca ctagcatgtc aaagcataat tcttcaaacc ttgtaaagaa tatctaaaga 180
ttaataacac tcccactaat tacaataata atatattaat gtaagaaata cttatttctt 240
ttaagtggat aacatacagc ctcttcaaaa attgcgagca agccacttgg ttatctagtc 300
gtttctcata cacgttctaa gacaatgtat catattcatg ttcaaactcat aataagatat 360
accatatcat ataagctcct agttagcagc tcgacctat tgatatcaat aagctaatga 420
taacact 427

<210> 18656
<211> 410
<212> DNA
<213> Glycine max

<400> 18656

agctttcata ccaacaagct gaacattaat ttttttttta tcaagttaat ggttcattat 60
atgccaaaaa ctctttcagg attgaataat acttctctcc tacctatcaa agaatttttc 120

ttgctccagt ggaatggaaa atttgaggaa gaatgatgag attgtaactt ctgatcaatc 180
 taagaaccaa atatcacttt cactcaatac aaacagtata ttttgtatat ttaagaacaa 240
 caagacatca ttcctatgac caaacactta catgaaaaga acagaataag aaaatgagaa 300
 aacaatacac ttgccaagat atgtgggaaa aactacataa aaagagaagt gtaggtatta 360
 aaagattcac ttggactcca aatgttgaaa ttggttgatc atgcacatat 410

<210> 18657
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 18657

tgatccttga atcttgattc ttgaattcat ccttcttctt ttatcttgaa gtgatcttca 60
 acttttcttc ttgagtcttg aattgttctt gattccttct tgaacatctt gaatcatcc 120
 tttgattgaa cttttcagtt ttttgcacat cctttgtcat catcttttgt tatcatcttt 180
 gttatcatca aaacatcttt gaatcattct tgattcacca tgaagctttg cttctacaca 240
 attggcggct aatatcttct tatgattttt gggggcttaa aaaccccccc acaaattgca 300
 aaacgccatc acaaatttgg agggctgggg taatgcattg ttggagcaga agaaatcacc 360
 catggaacat ttgcatctgc agaccttgat cttctttgtc ttcacatcatc aagggaacctg 420
 tacattcatt cacatgctcc aatacct 447

<210> 18658
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18658

agaggattga gcttgtgaac actgaacacn aaaccnaaca cacaataccc agcgttccgc 60
 gaagcgaagt gtggttgcaa gtatcgacag gacgcaggga gagcaagggc gagtatagta 120
 cacaccatag cttcgttaga ggaaagagaa agacatctga cgcatacat cattggaaca 180
 gaccgatata aagcgacaag atatggacct gccgaagacc aagcaacaat aactctcgag 240
 atctgaacca cggacatgaa ggtgccggaa ataccaacag agaagacgtt cgccttaccg 300
 aacggaaagc cgggacggaa ggtacaatgt aatgacggcc ccaacgagtt accaaagtga 360

ctaagacgtg gagaccacga aagtgaatag ccacggtgag aaaaatgaag cgacacacgg 420
aacaatgggg ggccctaaca acgag 445

<210> 18659
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18659

tataagaaca aaattgcctt aatcattttc aaatatgtat gtgatttttg acgcatcaac 60
aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaacatac caaatgatta 120
taatgatgga tggctcaaat tctcaciaag gtaaaatcat cactttcaaa tcgagctttc 180
aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240
tttattttca aaacaatntc ccattttttg aacatatcct ataattcaaa gaaaaacatg 300
caaagtcgta cgtgcacacg aaattgaccc anaatattaa actgaaaatc cgacgaaact 360
aacaacatta acaaattaac acaactaaca aattaacaaa accaacaaaa ctagcaaac 420
caaagaacac tcccaccccc atacttaaac aacacattgt cctc 464

<210> 18660
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18660

agctttatcc tagtacaagt aaaatcaaca tattgagcct ttagtcaaca ttagatttta 60
tggttttgat aaacctatca accattagat tgtcgagagt ttatcaatca ttagtctcct 120
gagaaacaaa atcttgattt atagtacaag aggccctagg atgagtcaga cgaagctcac 180
cattaatcca catgtagaga aagcttacct ctttctgact aaactcttct ttaagtcggg 240
tgatatcttc ttgaaattga acattttctt cttgttctca ttgtgcataa gcctttgatt 300
ctttagcatg gactntcaac tcgttaaact cttccaacaa tgcacaaact cgctctt 357

<210> 18661
<211> 452

<212> DNA
<213> Glycine max

<400> 18661

tcaggctggt caattgcttt agattgttgc acatatttca aaggctctgtg tgggtggtcga 60
cagaggagca taaaccatag agtctggcga cagggtgcaga ttttttattc atggccagtt 120
gggttaccag gttaactaag gcatctagtt taccttcaag cttcttagtc tcagctaatt 180
aagatgaatt cgtggctact tcatgcactc ctctaataac aatagcatca tttctggcac 240
taaattgctg ggagtttgaa gccatcttct caattaaatt tttggcttca gcagggatca 300
tgtctccaag ggctccacca ctggcatcat ctatcatact tctctccatg ttactgagtc 360
cttcataaaa atattggaga agaagctact cagacatttg gtggtgaggg caactagcac 420
atagtttttt aaatctctcc cagtattcat at 452

<210> 18662
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18662

agtttgctcg tcttgtggag ggagtgcgtc cttcttttagc cattgaccat tacgatcctt 60
acgataacca aatgaagtga ctgcaccagc acctatagca aaggaacgct tgacttgaac 120
aaaagggttca tcatcaagag gaatttgaaa atgacagaga aacaaagtga ccaattgagg 180
ataagggaga ggtgcattgg cccgtaatgc cttatgcatt cgggtacctaa ccaagtgagc 240
ccagtcgatac tgacaactag taagaaaage ccacatcana atcaagtcct cctcagaggc 300
ttgagctaaa tttgaagaac ggngaagcan aattctaaca ataatatagt gcaagatgag 360
acaatcaaag gttaatgagc tggccagcaa tctaccggtc at 402

<210> 18663
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18663

tcaagaataa tgacctcagc aaacttctta ttcttatatt gattctcaat aaattggcct 60

cccattttta atggagaggg ttaccactac tggaaaatcc gaatgcaaat tttcattgag 120
gcaatagatt taaacatttg ggaagccata gaagttggac cttatgtacc caccatgggtg 180
gctggaaata caacaataga gaagcctaga gaagagtggg ctgaagaaga aagaagatta 240
gtgcagtata atttaaaggc taaaaacatc attacctctg ccctaggaat ggatgaatat 300
tttaaggtgt caaattgtaa gagtgctaag gatatgtggg acactctact aggtacacat 360
gacggaacaa atgatgtcaa aagatctacg ataaatactn taactcatga gtatngaatt 420
attangatga agacaaatga gagtatataca gata 454

<210> 18664
<211> 413
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18664

agtctttaa gtagggcact aaaccattca aattaataat aataataata atactaatac 60
taataataat aatcacaaaa tatagataga gttccttatt aagttcatga ccttacctat 120
cgttgttctc caaataaaat taaaatttca ttacaagaca atctatcttt ctaagtttta 180
aatggatcat tatgatggaa actctaattt taatgatggg gcntnngtta aaacatctaa 240
atattgtattg tagttagaat gaattattat tattatccta cacctaataa cttttctttt 300
atctcacttc caatttttat ttattttttt ggatcaacta gagtatccat agttgagagt 360
tagaatgaag gaataaggat taattttctta acaactaaaa tttatttaca aca 413

<210> 18665
<211> 433
<212> DNA
<213> Glycine max
<400> 18665

tgtctttgga gattaatagc tatcgtgcca ttgttattgt caactataa ttgtctttta 60
gataacacca tatttcggta gtccagttgt tcccatattg agtatgatgg gggggcatgc 120
gttgttctag attttagcgt atgtaatata ttgaacatta ctgtcaacat tatgacggaa 180
atataacggt ctatattgtc gtatctgatg caaagtaaaa gcccatatag aatatgggtt 240

ggtttgatcc aatccgattt tcaagcctgg tttgacggat cagatggatc aatctgtgta 300
 ttttgtcgag ctctatgtga gattccaacc ataatacaatt atcatatagg tataagggtta 360
 atttgtttta atttatatat tcatataaat atttattcta ataaaataca gagctccata 420
 ttcttttgtg tat 433

<210> 18666
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18666

tgtttatttg acttatgaaa gtggcttatg aattattacc ttcccataag ttattttcaa 60
 cttacctagg ctttaagggtc aagcttttat acacacctta ttaagttgtc cactcaaaaa 120
 cattctacgt cttgttgtaa taatttattc aataaacatt tttatgtgaa gaaaataaga 180
 aagtaaaata aattgagttt ctctcgtata taaaaatcaa cttatgcact caactttaat 240
 agaaattctc ttaactggat aattgaaatg tataagttaa ttttaactta tggaagaaac 300
 taatctcagt ttatcataac ttcttttttt ataaatactc gtggaaacaa tattctaact 360
 ggataataaa aagatgaaat agcatttggt taatagcagc atgtggtggg 410

<210> 18667
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18667

ttgtgtaatc gattacactt atttggtaat cgattattag tgtttgtttc tgaaaaatct 60
 aaagatgtaa ctcttcaaaa aggttttgac tttttaaaat gggttttaag tttttctgaa 120
 agttataact cttctgaatg gccttcttga ccagacatga agagtctata aaagcaaggt 180
 tttttttttt gcatttttga aacaatcttt ctaacaacaa tcttgaatac ttttgctttt 240
 ccatacaatc ctttacaagc cttgaatctc tttgaatctc tttgaacttc ttcttcttct 300
 ttgtacaaaa agctttctga agttgtctgg ttgtccaaac cttgaaaact tngngctattt 360
 atattttcat tctcttctac ctttgccaaa aagaattcgc caaggactaa ccgcctgaat 420
 tctttttgtg tctctc 436

<210> 18668
 <211> 407
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18668

tagttattga actgtctcta actttttttt ttagtccaat ttaagttnta gttataccat 60
 ttctttcttg tatttatgaa aggagtgaag tttccatgtg tttccacat gtcaaacat 120
 agctaacagg actttgattt aaaagtttga cccttttctc acaacaaaca ggttcgattg 180
 taggagtttc ttgttagtag acgatgtgta ttctttattt taagtttttc atagaggttg 240
 atggtttctc cttaaattta aatagagatt catctatgcc taaacttttg tatatcaata 300
 ataattttt gttcacagtc ttgttattat aatctggatt ttcatatcat ctcaattata 360
 attgcaattg ggaagagagt atgagtattc atggatcggg tctgatt 407

<210> 18669
 <211> 463
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18669

aactataaa actaagctta gatgaagctc aaagaaatat aatcgttagt tacacaaaca 60
 cttgaaatga aaacctgata atctagatgc tttgaagaaa tgagtaacga acctacacgc 120
 tatcattcaa attctttatg tagaaaactc tttgtatatt cttaataagt ttgaaaagct 180
 ctcaaacat cttgaatact ctaagacaaa aaactaaatg cttagatttc acatttgatt 240
 gtaagatgat taagaattaa tcagtttagca aatcanacaa catatcttct gatttgata 300
 gaaccaacag tggctgggaa ggacaaagaa tattcggttg ttaaagcttg gcgataaact 360
 atgttgatgat agctaanagt aacagtgaca aatacttgta actnttgta aattagtgaa 420
 attgatggc taacacaaaa ctgaacttag tctgaatggg aga 463

<210> 18670
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 18670

ttttgttgca agtttatcat tagatcaggg aatctatgta aagtagtaaa atatatggaa 60
agttgtaaga ctcaacaagat tacgataaac aatctattta aacaataatg tattgtatat 120
gttcaaaggt gtttatgata tcatgtgtgc tacctatcta tggactttgg cagcaaattct 180
tcacacaaaa taccgtaaga ttgattctca ggtcaagcaa ggggtggttaa ataaagctct 240
ctttagagta atgctccaaa gatgataacc ttccaacatt ataggtaaatt ctttcccga 300
gtcagtttat aatcactgtg accaaccatt aacaggtgta tgtgctagct ttacacataa 360
taattaatgc attttgatat attatgcccg aaattatcat gaaagcataa c 411

<210> 18671

<211> 436

<212> DNA

<213> Glycine max

<400> 18671

tgtattacaa gcaggaatga caatctttca aggacgtatg agtaattctc aaggagata 60
tttgtggtct aataaatata aagcccaaga gagaagaaaa tcgaatcaca ttgaaggaag 120
tatttgctgt tcctatttta tataaaagaa gtaacagaat tttgtcacat tttgtccatc 180
taacaaaaaa aagtagaagg tttatgggtca cttcataaaa aggaaattct agacaagatt 240
gtaataagaa aattgcactt gtattctgat acgggatatg gagatgtaac atatataaa 300
taacagaacg atatgttctt tgggtgttgc atcgtatctg attatggttc tgcatacgta 360
ttctacaaac tggaattaac atagaatatt acggatggaa tgcttagaac aatattcttt 420
ttatattgat tgagta 436

<210> 18672

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18672

agtttatgaa acatacaatg aaaacctggt tgctttgttt cgggtacaag gtgcaagtcc 60
agataaatg caggccatcc aagttgatca agtaagtttc aatgattctg actttatcca 120

tagtggagcc ctttttaata tatcttatct ctaattacca gaaaaatgga tagcaattat 180
 caaggctttc aagcatagct attgaatatg gactaaaaca ctatttcaat attttggtct 240
 tattgaatat ggactaaaac actaggcact taagtccaac ctattgtgct ctattgatga 300
 tgggtctattg gctgatatat atgttggtg gaaccaaataaaaattataa tcagaataat 360
 tattnttcca tctgtggtgc tcanaatggt aactttgaaa c 401

<210> 18673
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18673

tgctcttcca tattgtgagt ctttgctgaa acttgattat aactggttcc caagttgatc 60
 agagagttgg actaaccg actggcagtc ccaaaaagtg aaaaggtgga gaagcaaccc 120
 tgcataaaag gaaatttgca gctggctcat taaatctttg gtttggtgcca atcccataaa 180
 agacactctt aaggaagtta actaacaatc cagagaccaa ttcgaagcct cggaatattg 240
 cttttattgc ccaaagacta tcatgagtca cctgtccac cataactgaa tcatcagtgt 300
 attggagaat tgagtattgg aactcttctc caactttcat acctttgaat agtcttttct 360
 ccaccgtgct atgaaccgcc ccgttagacc ttgagcagct atcaagaaca naaatggaga 420
 caacggatca cctgcttca agcctctta 449

<210> 18674
 <211> 351
 <212> DNA
 <213> Glycine max
 <400> 18674

agtcttgctt ttaatggatg gctatctgac gatcctctag aggacatcc tatagactat 60
 agatacatgc agacagagtc tctctctgct caccacctat gttgagagac atgaagactg 120
 ataactgcag agagtgaatg atagccgcct acttatcgag acctatagat gtatggaacg 180
 ccgaggaaag tgaatagatt atgccacgtg acagtaagat gactgagatt gttataggct 240
 tctggacgca gctactatat cctatatcat agttatacta ctgagcacag aatgtgacga 300
 tgtatgctct atcaaaggaa taatacgccg aggtatcctt tagtagatgt g 351

<210> 18675
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 18675

taacataggc tccgcatacg cgggagcact aagggccatc ctcgagttta gggcgtgtaa 60
 gctagagcgg gcgtaacgcc tggcttacgc tgagcctggc tgaagaggcc tgctgcgcac 120
 aacgcacgga tcttgcgcta atcacgcggc ctagaagctg atgctcatgt caaatctacg 180
 tcgcgctatg cgcgatgaaa ccgtactaat cctgaggata gctagcaciaa ccattctgta 240
 ctttatgcac ttcataacgc tatcaattat ccacctgaca tggcacataa actatcggta 300
 aaaacaatgg acatatgata gagccatcct tctacatagg actataatta tctaca 356

<210> 18676
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18676

agcttaattct gttttctctg ctctttgatc ccgtgaaaaa aaaaatggct ggagatgaag 60
 aaaagcttcg aatagtgtga tgtttccatg gctagccttt ggtcacatga tcccaaacct 120
 tgagctggcc aaactcattg ctcaaaaggg tcaccacgtg agtttctgtat ccaccaaga 180
 aacatagagc gtcttccaaa accgtcacta aacacacttg atatcaattt cgtgaacctt 240
 ccactgccta aagtccaaaa ccttcagaa aacgcagaag ccaacactga catccctac 300
 gagctctttg aacacctcan agaagcctac gagtttctcc aagaaccgct gaaacgttnt 360
 ctggaatctt ccanaccga ttgagtcttc tacgacttcg ctccc 405

<210> 18677
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18677

tagcttatcc atctttgtcc cattttcatt gtgaggttat ttcagcagtt atgcaacact 60

tcatatgccc cactgtgtgc tagtcctaag cttactaac caagacccaa atttgtgatg 120
 tgtaattcat caagccaaat cccgtgttac cccatttttt gttgcatcaa tttgggtaac 180
 agctctaaca aagatgtaca ctcaatagca atgccctatg ctctaacatt aaaaattggt 240
 taactatttt tcttttcaca aacaagatat ttgagtagta tgtttttgcc cttgtaactt 300
 tttgatacaa aaaaatcaac tccagcatgg aaaagagggg gatttttctaa catggcattt 360
 gcctaanaat ctatacacia tgttggtac gaaaaatcac acagtttcca aactctgaan 420
 aagaaccagc aaacaaaaca naagtatgta ttgac 455

<210> 18678
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18678
 agcttgtcaa acacattctc accattttca tttgctgtta aaccactcc aaccaccag 60
 agaattatat tacttttctt cataacagca ttttcagga aatgtaagag agacaacaag 120
 caacgttttc caacatgac aagtttgta caatttacct caatcatttc caactcctca 180
 cgttgatgc tgaagggag tttcttgat gactgagaat cctctatatt agtactttgg 240
 atttcaccag caggcagcaa cttttgagtt gattctctta ttctcttgcg aatgtgtccc 300
 tcctctctg tcaacttatt tatgtttttg gtgcgaagat agccatccag gactgttaat 360
 gtgtcaagga gttcttcttc atttttcttc actaaaggaa acaggtcctt tat 413

<210> 18679
 <211> 371
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18679

cgcgacatcg aggactacta gcatagatac ttccacctac tccttgccac cttcataacc 60
 taatatcaaa cctctgatta cagcttatca tgacaccac tgccagacct gacacacact 120
 tatagaatgt aaaggagtga tttgagctcc atatctttag tcgacaacta atgctaatac 180
 ctccgtacga attctattaa cagagcattg gtattgacga gacgcattgc agaaagtaaa 240

cgcccgatcc acttcctgta naattcaa at gttagggtac gattagtccc aacagattga 300
 gttctatatc ctttcagaga caacgataag aatcagacat gattcctcct cactttatgc 360
 cttagaacc a 371

<210> 18680
 <211> 335
 <212> DNA
 <213> Glycine max
 <400> 18680

agcttgtaag tatttggtgg tataatttgc ctgttccatt atgctcttaa tgtctttaga 60
 gggtatttcc tcgttgacat cttttgtctt gaatggaatt gccatgacag gtttattggt 120
 actgtctttg atgtttggta gttgatattg tgttgcgga ggtaattccg attggattaa 180
 ctccatcc ttcacttgcc aatttggtat gacatttggt gttggatcac ctatgatgtc 240
 ttgtttcaa gggaatcta tctccttct gatggcataa gcatgacacc aatcaaagaa 300
 aaggacatta atcttgactc tctcgacaaa ttcgt 335

<210> 18681
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18681

tcagtgcag atgcaatctc agggacttgc agttccttct gttcctctgg ttggtcctc 60
 cggctctga gtgagcaca aggggacttg tgttgatccc tcaggaaacg atcctgagac 120
 gggtgactct aataggtgcg gcttgatcat agaagcaaat cctacccgcc tgggtgccat 180
 ggggagagtt tatgagggat ccactgttgc tcataacatt cctttgttgc ctggccaagt 240
 aaaggtgagt gtggaggagc ttacagatgc agatgtcca gttcctgtac ccactgatga 300
 gggttctta gtgggatagg catttcacac cttccttct tggccgacac atctggtcaa 360
 gtctttatca cagcaggtac ttattggcct tactatatgt ttcttcttn taaattaatt 420
 cattaagt 428

<210> 18682
 <211> 409

<212> DNA
<213> Glycine max

<400> 18682

agcttgccctt gccccttgat atattcgagg gactcatggt cactatgaat gacaaattcc 60
ttgggataaa ggtagtggtg ccatgttttc aaagcccgta ctaaggcata caactcctta 120
tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180
tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240
aaagattttt gaaagtttgg caacgcaagt atgggggcat tagttagctg ttgcttaaga 300
acattgacag cttcttcttg tttctctcca catttgaaac caacatattt cttgagcact 360
tcattgagag gtgctgccaa tgtgctaaaa tccttcacaa atcgtctat 409

<210> 18683
<211> 460
<212> DNA
<213> Glycine max

<400> 18683

actaagctcg aattgaaaat ggaagctctc agaaaacaaa ttgtcttact tttcactcgg 60
attgccgatt caggtgcata acatatcgag acgctcaaaa ttgaacaaca gaagctctcg 120
agaaattcaa atggtcataa gttttcacat ggatatccga ttctgtgtta taatatatcg 180
agacggtcga aattgaacaa cgactctaga aattcaaag gtcataactt ttcactcgga 240
tgttcgattc aggcgcataa catatcgaga cactcggaat tgaacaatgg aagctctcga 300
gaaatacaaa tggtcataac ttctcactcg gatggccgat taaggcgcac cacatatcga 360
gacgctcaaa attgaacaac ggaagctctc gagaaattca aatggtcata acttttaact 420
cagatgtccg attcggggat aaaatatatc gagacgctcg 460

<210> 18684
<211> 409
<212> DNA
<213> Glycine max

<400> 18684

tgtttctcaa ggaagctacc tagtctatac agagaaacat gaataacact tggtgtaact 60
ttgatgaatg agagtcttgt gagacatact tcaaaaagtt ccacttctct ccctctttta 120

ttccttcaat ttcgtgctcc cccctctctc tttctctccc tctttctttt cctccattga 180
 agcatccttc caagcttctt atccaaggct catcttggtg gtgaagctcc ttcttctatg 240
 gcttattccc tagtggatgg cgctcctct cactcttctt cctttgtctt ccgctgcac 300
 tccatggtgg aaaatcacca ttaaaggacc tcattgaagt tcaaagatct agcctccata 360
 gaatccctac aaaaaaggtt ccatcaaatt ggtttagggg ttggacttg 409

<210> 18685
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18685

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 catatccaac tacacatcct aataacaaaa taaaacaaga aatgggtctt cacttttctt 120
 catttttata ctggatcttt atcagcagcc ttccttctag tgaaccttgg tgttggcatg 180
 aatagtatgg gtgctgttgg tgggccatcc acaacaggtg catctactat tgaagtgtcg 240
 gaaatgttct tttgtttggg tcttctttgc tactggtgga acatcaacaa taggtgcagg 300
 gacctacatg caaatgccaa acatgaataa cacttgtaat atataaaaaac aaattgggta 360
 gtcttaagag aacaaaatat ttacatgaa ctccatgtca ctatcttgtg ac 412

<210> 18686
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18686

agttttaatg gagtgaaatg tgattgaata agtagtgaaa atatatggga atgagttata 60
 gataaactcc tatgctaagt ttgacggttg gttaagcttc aattatgtga aatgcggcca 120
 ttaagttttg tgcattgaat tgctttgagt tatgcaattt gttcctttat tatttaaatt 180
 gatctaattg ttttttatta agagaatttt gatcaaccaa gtgctaatta tattggttgt 240
 gagagaattc aattgcacgg ttaaattgga tatggtgttt aagagatgct taanaagtgg 300
 tttattgctt ttgtaagtga attgaacttg ttctaaagga ggatgtttat ggaaatatga 360

atggtgtgta agtactagat ngacatgttt ttagtttata tattaag

407

<210> 18687
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18687

tgttggagga caatcctact cctctctcct cgatctctan gttatttcac tcaaattagg 60
gttccgattc tccgttaaca ttgattttgc acttaaatca aaatctgtcc acgtttcaga 120
tttgggtgtt gttcgttttag ctgaaatatg tttttactcc taaaatttgg ataactcctt 180
ttatcggaat gaccagaaag taacagaatc ggtgtttttg agtagtttaa agtggatttt 240
aaagcaaccg cgcattcgat ttttctttat cttaatatat tcggttgaaa ttgatcaagc 300
aggatgttat ctgtatgttc aattcttttg tagctaatat gattcgggtgg aatgggttgaa 360
gctttttag gtttcagttg ttgtcaggtat atattctgtt gcatganagt attggctatg 420
ggctatatg tatatgttag atggttagca tat 453

<210> 18688
<211> 405
<212> DNA
<213> Glycine max

<400> 18688

agttttaaca aagcacacaa agacaacctc ttcttcatca tcaagaatta cttctttgcc 60
cttgtagcat ttgacctttt gatagagtac atgcttgtca acaacaattt aaaagctagt 120
ttctgatgtg accaagcacg agaactgggt tcccaacata aagggttggc gagtgttgag 180
tcattgaatt ttgcctaaag aggcttgtgt ggatcaaate tcctttttat aggtagatag 240
cttcattatg agttttggcc catgatatga taaatcctag ttagagaaat ttgaactagc 300
ttcaggatta gccaaacaaa tatcttcagt ctggaaggte acgtctgatt gagagtgatc 360
ctagggaaga ccaacattaa gtgtgcacag aagaccatc aacta 405

<210> 18689
<211> 439
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18689

tttgatatag gtaaattggt cttcatatta aaatccatct ttgaatctga tcgcgataag 60
gaagacgagt tatattcatc aaatcaagac cagaatgaga cataattaaa aaaaaattaa 120
gaaaatgaaa tcatcaactt atgaaaccta gccaaagttaa tgacattaac ttcttgattg 180
ttttgtaatt ggggtttgttc ctactcttcg tttgacaaca tagctcatca gtcttgctct 240
gattttattc agagtgaat tgtaattcga agacctattc agcgaaatca aagggttgat 300
atctttttcc tttgtttttt tatgtcatgg ttggcttatt caatatgggtt ttccttctcc 360
ttcctttctg ctaaaaagta atgattctgc aattcatcct cctctntnta tgctcttatt 420
cattntcata tacaattat 439

<210> 18690

<211> 394

<212> DNA

<213> Glycine max

<400> 18690

tgtcttagtg gctttgtgaa gatgaagagg taaaagtgac tcaacagggt gaggtgtgtc 60
tcaccattgg gagatataat gacaagggtgc tgtgtgatgt ggtcccaatg gaagcgaccc 120
atgtgctggt aagaagatcg aggcagtatg ataccaaggc agtgcattgat ggcttcacca 180
actacatctc tttctagcga gctgacaaga agattgttct caaaccgtta tctcctcaag 240
agggtttgtga ggatcagata aaaatgagag atatgatgaa gagtgagaca ctcgagagga 300
aaaagagtga gacacttgag aaggataagt gaggaaagag aaagagtga acacttgaga 360
gggaaaagag agaatacata gagagtgaaa cact 394

<210> 18691

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18691

nttaaccttg acttggtaga acctcttgcc gggtttgtttt gtttccatgc ttgctaaagt 60

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gagacaaaag | ctggtgcaaa | tcaaaactcc | gatatctcat | gggtggaatg | gatgaatgca | 120 |
| tgaaggaatg | catataacac | agatgtaatc | tacgaatgcg | ggggtccggg | gaattcgtcc | 180 |
| ccttcttaga | cacaatgtct | aggggtagca | aagtgcccca | acgtacgttt | ttaagaaggc | 240 |
| gacacggacc | ctccgttggt | ttgtatacag | aagggatcaa | gacagaaccc | atatgcgatg | 300 |
| cctatgcaaa | agacacaaatg | cgggaatgta | cacagtatga | taatattcac | tgaacataag | 360 |
| caaaagggta | tatgatactt | atgcatggca | gtgtaaaaat | ggcacgcagc | gtgtttgctc | 420 |
| cgtgccccta | tttaagggga | cctatacggg | ga | | | 452 |

<400> 18692

| | |
|-------|-------------|
| <210> | 18693 |
| <211> | 443 |
| <212> | DNA |
| <213> | Glycine max |

| | |
|-------|-------|
| <400> | 18693 |
|-------|-------|

tcttcttcgc aagcagaagt gaagataata tattaccgtg gagcctgcat agagaggggc 360
 cattaaccca ttgaaaaacc catgaacatg tatattatat atgttaagga ctgacgtaat 420
 aaagatatcc caaatgtttt aaa 443

<210> 18694
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18694

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 tttaatattc aaattgttgg tatttttagga tcttggtgaa cccataaaat aaaaaatgtt 120
 caattttgat gaaaatgctt gttgaaagct gttctgagta cgtacttcat actacatgta 180
 tgttatttac catatatgat caaatgaaat aaaatagtaa aaaaaaatgc acatataaag 240
 taatgtatgt gttaaatttg atgtaactca ttttattaat ttcaaaaatt aaattcttat 300
 tagtaatttc cagttgataa ataactttat tttatactaa tgacttaaata aacacttta 360
 tttacaaaga gctntaattt aattggttta acaggtgcgt taattattac a 411

<210> 18695
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18695

tcattagaga atcgcaataa caacaacact ttcataatac tcattatcaa tttcagagag 60
 tacattttca gacataaagc aaacgcattg cgatgctatc accacatcac ccgtgtttca 120
 tcttctcgaa accaaatagg acttatttgg cacaaggtat ggagaagacg aaacacaact 180
 aaggtggtga cgacagaaca ttggaatgtg aggaagaaga ggtgagagga ataggatgtg 240
 ttgacggctt acctgctaag ggagcaaatg cagcggagat gcaaagagga gcgaggagga 300
 acgaggagga gaacaggtga ggaggcgaac aaacaagaat gcaaggaaga gtgcgacaga 360
 gagaaaatat ggctcgtaga gacatttcan atatttttaa atgtatgttn taacatcggt 420
 ttctactaaa aaccgatgca tttgattt 448

<210> 18696
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18696

agctgctagc accagcgatt tcaacctaga aatcaagagt agtgtttatg ttgcttaagg 60
 cttggatagt ttcaatttgt gtttgcttat gctcaattat cttgaataac acaattcaag 120
 agagcttaag acttatttga ttctcaaadc cagccacaac tcagcaccac aactaaactt 180
 catcataaggc atcatgtagg aatcttagaa aacaaaaaaaa gagttcaaca acaagactac 240
 ttctaggaat tgatttagaa catgttatga actaaataac atgcatgaat tagactcaaa 300
 attcaaaaga taggctaaga atgacaagtg tatatctaag aatgacatgt attcagaana 360
 agaatattat gaatganaaa tgatagaacc tanaatcaac ac 402

<210> 18697
 <211> 444
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18697

tgtagaatgg ctagacatga tacatgttat gggttggttt gggtcaagga taaaagggat 60
 gccccacatt atttccatga cacaatgca aaaatgatga tttggaaact ttatgcaaaa 120
 ctgggtcatgc atgcgcttat gcggacgctc aagtgtcaaa tttttatggc caggtgatgc 180
 taggggttcag gattcatttc ctctatttta aatcaacca atgtttccaa aatatgttct 240
 tttatcaatt tgtgcattcc tccaagtcca tttcgggcgt ccgnggaaat ttttacagca 300
 ttcacccttc aggtgtagac acgttntttc ttcaaaaatc gggtatgatc aatgaatttt 360
 ttttcaaaga aaagttggaa atcatctctt ttcaaaagca tgctcggtnt tagctagaca 420
 acttattttc tctttttcca cctt 444

<210> 18698
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 18698

agcttgccctg cccggtgcag cagtaatgat ggcccagatt atgttgggga acggttacga 60
accggaatg ggtttaggca aagacaacgg cggcataact agcctgataa atgccaaagg 120
aaatcgtggg aagtatgggt taggctataa gccactcag gcagatatca agagaagcat 180
cgcggaagg aagagcggta gtcaaagctc gcggttgaga caagaagggtg aaggaagccc 240
accctgccac ataagtagga gctttataag cgcaggctctg ggggacgaag gtcaagtggg 300
cgctatatac gaagatgatg ttccgcattg gatttggtac gaccatgccc tcttgatttc 360
caactgtgaa attggcaagt ggaagaacgc cctggcattt acgcaacgaa cata 414

<210> 18699

<211> 428

<212> DNA

<213> Glycine max

<400> 18699

tgtgtcggct tgtggggcca cactgaaatc ctcttattgt tgcccttctt ggactgcttc 60
gtggggagct tcttcgtagc caattctagg ttgcctccta gtagcgcttc tttaacgtct 120
tgagccagat gcatgatgac gatttgtcga tcacggacac aatacctgct ggtacctgcc 180
cgggtggttg gtcgcctact ggtcggccat gtgtcgtacg taatgctcca gcctttgtag 240
atgagctgag gtggactctg caagtgggtg tggtgcatct gttgcccgct actgtgatgc 300
cttgccctgt gcctgcctag gggcgtagta cttctcgatg aaagccctgt taataggggc 360
ctgatgacct tgctgggggc gatgggcact ctatagaact gacagaggca cgtaatcaga 420
gctggaaa 428

<210> 18700

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18700

agctttttct caaagagatc taggaaggat aaagcagctg aaggagcgct gagcaccagc 60
agcgcttcga ggccatcaag ggatgggtcat ttctctggga gtgacgcgtc cagctcaggg 120
acgaagagta taccgacttc caggagaaga tagttcgccg gcgttgggca tcaactggta 180

cccccatggc caagttcgac ccagacatag tectcgaatt ttatgctaatt gcttggccta 240
 cagaggaggg cgtgcgagat atgcgaccc gngtgagggg tcagtgaatc ccgttcgatg 300
 cggatgctct cagtcagtgc ctgggatacc ctntagtgtt ggaggagggc caggaatgctg 360
 agtatggcca gaggagggaa tcgtccgacg gggttcgatg 399

<210> 18701
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18701

tgtagagctg cattgaggct taccaaggat aggccttggg ttttatgaac ctatgagact 60
 caciaagggg ggatcttggg tatgacgagc cttgtgtatg cagcgcatgt gtcgtgttct 120
 tgcatacgtg tcaacttcacg gaggggcacg tggtggagac aagggtgcata aacctgtagg 180
 actcaccaag ggcagacctt ggggtttgtg agccctttgg aggatcgaca agggaattgt 240
 ttgacctgng ttttgggcat cgtgctcttg catacgtgtc acgtactgga gatgtaattgt 300
 tgtgctcttg catatgtgtt actcgtgaac tgacatgtac tggaggcatg gtgctcttgc 360
 atacatgtta cttgtcaaatt ntcacgtact ggagacttag tgtcatgctc ttgcatacat 420
 gtcactcgcc gtggatggca cataccagag ac 452

<210> 18702
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18702

agtttatagc ccaatttttt tcaatagtc ttattttctc ctattccaat gatgtatata 60
 tgtctgtatc tcgtcggctt aacgaattcc taccctccaa atttaattgga aaaaaggaca 120
 ggtggtgaag aaaatagagt gacagcatag ccattcacat gatcattgaa tgttataaaa 180
 cttttacctg ttatgtagca caccacccat gcctactttt tttctttatc tgccttttc 240
 aacatacctt ttatatattca atagctggga acattcccat attataataa aagtaatatg 300
 gtaaggatat gacaaaatcc gttcacattg gtttagaaaa ttttccactg ccggcttgat 360

ataatgtatt gactntcatt tgatgatgcc acanaagtcc aagtgtttt

409

<210> 18703
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18703

actcaagcta caagacaaag atggcctcaa caaataccaa tcaccttatt gaattctatc 60
aatagacctc caatctttaa tggagagggt taccactact ggaaaacccg aatgcaaatt 120
tttattgagg caatagatct aaatatttgg gaagccatag aaatagggcc ttatataccc 180
actacagtag aaagagttac aatagatggt agttcatcaa gtgaaaacat aactatagaa 240
aaacctagag atagatgggtc tgaagaggat agaaaacgag tacaatacaa cttanaagcc 300
aaaaacataa taacatctgc cctgcgaatg gatgaatatt tcagggtttc aaattgtaag 360
agtgctaagg aaatgtggga cactcttcga ttaacacatg aaggaactac agatgataaa 420
agatctagga tatatgcact, aactcatgag tatgaatta 459

<210> 18704
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18704

agcttcttat gacttgcaat aaaatccana ttctgaatac agcccctaac caaggctatg 60
ggaattgagg aattttttaca agaattccat taaaatcgaa tatataggct tgaaaaaaga 120
agaaccctaa caacttgtaa atcatgaaat tttgtaagtt attgggtact tatagctgggt 180
caaagatata tcgcaaagca tgtgcttaac aatgcttgag gactagaatt ttcgaaaaaa 240
ttgtcagact acacattctc tttcttatct ttctctaaat tacataagtt tgttaaaaaa 300
tttccaaaat gttcactacc ccgacttccc tacagggcct tttttaaaat taatttatat 360
gtttaaattn ttattntaat tntaaatatt aaaataatat aaatattata gtatat 416

<210> 18705
<211> 458

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18705

tttgtcactc tacccatata tgccttgaca ttaactatac ttaacatcgc cgacaacaat 60
gtcaaggaat tcttgcacct cggatacaaa ggcttctttg aatcagtttg caatgtacca 120
tacatagggg catgtgcttg ctgaaaagac tcttgtccaa ggtcacaaat catatcctcc 180
aagcgatctc tcatttctac atcaaagat tcagattggg atccactctg catgtctgtc 240
aattcaccat gtcatatcca cgttgtataa ttcttcttaa tcccatcaca caacagatgc 300
tcccgatatgt catccaatat ttgtgtctc ccattcaaac aatttataca aggacaaaaa 360
aaaatttcgt cctcattcgg ttgacttctt taggaggcaa attgcaagaa ctctntgacg 420
ccttcctcat atgcagggt catgtgactn tcgttcat 458

<210> 18706
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18706

agtttcttca tcagaccact tccaggggtgc tggaactact tcacatggat ttgatggggc 60
ctatgcaggt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgat gatgatttct 120
ccagatttac ctngtcaac tttatcagag agaaatcaga aacctttgaa gtattcaaag 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240
atggcagaga atttgaaaac agcagggttca ctgaattctg cacatctgaa ggcatactc 300
atgagttctc tgcagccatt acaccacaac agaattggat agttgagagg aaaaacagga 360
ctttgcaaga ggctgctagg gtcattgttc atgcaaaga acttcctat aatc 414

<210> 18707
<211> 465
<212> DNA
<213> Glycine max

<400> 18707

tatccttatg gctggcctcc ggacttcacc ccccggttcta ccccggttta ttaagccaa 60

gccctactt. tggaggggca actccacact tatgaagact atcccgggca agacaatgag 120
 gaaggagata cccatcttag cccctgctc cacctcaaag atccgtccc ccatgaacta 180
 ccccaaccaa acatagtccg ccatatcccg acttcaccca caccgtaaa agaactctgtt 240
 cccttcgtgg aagataaggg aaagattgag gtgcttgaag agagggtgag agcagtcgag 300
 ggctcggca attaccatt ctcggattta ggggatttat gtctcgttcc caacatcgtc 360
 atccctccca agttcaaagt accggacttt gataagtaca aagggacgac atgtccgaag 420
 gggcatcttc ggatgtattt atcgaaagat ggaggcgtat tctgc 465

<210> 18708
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18708

tgtttgcaga ggtcgggtggc agactcaaga ataatggaat gtgtagtggc tttgtctcat 60
 acctccatta cacttcattt gtacctgagc ttgcttccct atttttatta attttgttca 120
 tgtttatgtg tgagttgaat cttccccgcg aggatcaaaa gataaaaaaa attgtaaata 180
 taagaatcaa aatgaatgtc ttaaactata gggactaaaa aaaattatca caactataag 240
 gactaaaagg gtaattaaat caaaattaaa taaactagag caaataatg gtgggtgtgg 300
 tagacacttt taatcctaatt tgtctccttg tagacatata tacctctaca tatgtgntgc 360
 atttgcaacc accaccatta gtggaaaaaa antttaaatg caaaccttc ta 412

<210> 18709
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18709

tgtaagattt gcaagatcat cttccttgac aacttccttg aaaaagattg ccgtcaatat 60
 gaagagagaa caatttagag agtgatcgaa gactttcaaa tggatttcca ctgaatttat 120
 tcatagagag atcgagatat cttaatgatg aaagtgttcc aatgatcta ggaagagcac 180
 caccaattga gttgttgaa aaaagtaacg tgtcaatatt tttaaatgcc ccaatatgat 240

ctgtcagatt gcctgaaagt cgtgaactct gaactgcaag tcttgtgagt ccatgggaaa 300
 tacaaggagc aagaatttct aaaagttcat taacctgttg gttgagtttg agatatgata 360
 aatctatcac ccttaagttg cagagattac ccanagaagt tggaatgttt ccttcaagtt 420
 gattatgtga taaatcaagt tcaacaagag 450

<210> 18710
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18710

agcttttagac aacttggttg aatcgattac gacaactctg taatcaatta aaatagagag 60
 tttttgctcc ggaagaaact ttttctaact taaaaagttt tcttctcact aacctgatg 120
 atgaataata ctatgatgca acacacaaaa taacaaccaa tacaaatgcc actcaaggga 180
 gttaggcatg taaaagttaa aacatcttca ataacttctt caagctttcc ttgagagatt 240
 gttcacaatg ttgctcatgt catgttgctc cccctatctc taataactag tgctcccat 300
 taagacacat tngtctcan aaacggctta tccaaaaatt cttctaacca ttntntaagc 360
 tcggctaact ctataagaga catcctataa ggggctatga atatgg 406

<210> 18711
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18711

tcaccactaa gagaatgaga atgagagagg gagtaagtgg catggaaaat tgaaggaaga 60
 aaggagaga agtggaactt tgaagtgtat ctacaagtt tctcattcat aaaagttaca 120
 aaaagtggta cacatgcttc tatttatagc ctaggtagct tccttgacaa gcttccttgg 180
 gaagctagtg ttacacctgt tcaatagcta agtcacccc catgccaaaa tacatgaagg 240
 aagaaagctt ccttgagaag cttccttggg aagaaagtgt tacaccctc caatagctaa 300
 gtcaccccc atgggaacac gcatccctcc aatagctaag ctacaccccc aaaatacatg 360
 aaaatacaaa aaaaagtcca tactattgag actactcana atgccctana atacaaggct 420

aaaatcctat actaccaagg tacccttaa

449

<210> 18712
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18712

tgttttttacg gtggcaaggg cggnggaacg agagactacg cgtgatgggt caagtctgct 60
cagatctaac aaattgggct atgggtcaaa ccgatttggg tcgtctgggc ccaataaggg 120
agggatttct gattgggtgt tagtgaaggg gagtaaggaa gcaacaccca gaacaaatgg 180
acctgggccc cgtggtgaaa ggccgggtca acccgaaaga agaatgggc caagagatag 240
gggatttacc cagctttctt acagcgagat catggagagg cgaaggataa atcagtgttt 300
caaatgcgcc ggtccgttca gttcaacaca ccaatgtcct gacaaaaact tgcgattgct 360
aatcacgg 368

<210> 18713
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18713

tgtgtctttg tttttatatt ttagaagggg attttatttt atttttgaat acgaataaca 60
taaaatttgc acgaatttaa acttaaaatc attccaaaca taaaataaac attacattaa 120
cttcaaactt caaacattaa acattacatt aacttaaata gagttgaaag aaataaaatt 180
agcatcaaat acgacaacta agtgatgcta attttgcgac aaggacatat tatgttccat 240
ttcgattaca tgcttactaa aaacaactaa aatttctatt ggcccaattt ttttccagta 300
gttagaatgc actaacacct tcaactgtca tcgttgtttt cagttcaata atttcaatt 360
tgataattnt atctgaatac tcatagtgac ttggttgctg aaaaaacaat cgccttaccg 420
tttgtgtatc atgaatatca t 441

<210> 18714
<211> 409

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18714

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 accgattgat aaatgagaaa gagagctttc ttgtctctct ttcttgactc cttcaacgtc 120
 tcctttacac cttggcttag caaggcttca tcttgctcct caaagtcatt ctctacgata 180
 tcccacacat cttgagctcc tagtagcgcc ttcattctga tactccaatt atcatagttg 240
 ttctttgtga gcatcgcat ttggaaagga aaacctccat tcgccatctt ttgaggatct 300
 tgaagctctg ataccactnt gttggaaata aggctntnta tgtttaggaa aagtgtttag 360
 gaatattgga gactntgaat agaaacttga taggaaggag aattcttta 409

<210> 18715
 <211> 464
 <212> DNA
 <213> Glycine max

 <400> 18715

 actcagcttt aagaggcttt ttgaaagtag atcctttttt ccacatccct cttttaacta 60
 aattaacctc cttaaaaata attacggatg aaaataacgc aacaagtaat caaacatcaa 120
 acataattac taataatata tagatatata tatcagggtg ttacacatac attttacatc 180
 caagacaaag tgtagatttc tatgtgtaac tgatgctctt ggcatttcaa tctaacaccc 240
 taagttgttc acaccttcca aatcatgggtt atacatgcac aaactcattt gacaataaca 300
 catgtaatgg tcattgatgc atttcaccga acagttgggtg ggcgcatgtt taaacatgta 360
 aaacatgagg gatggagaat aatatgacat gcacatgcat agtacgagca aaggtaggca 420
 tatggtcac ccttacagca ccaatcaaac aatcaaagca tgga 464

<210> 18716
 <211> 154
 <212> DNA
 <213> Glycine max

 <400> 18716

 agcttggaca taagagaact agtctgtcac tcattagaga atttttggat gctcatcata 60

tgcattagcc gattaatgga ctaagcatga tgataaacct atctcatgtg tatccattga 120
ctatgctact cattctcatg catacatact gtat 154

<210> 18717
<211> 431
<212> DNA
<213> Glycine max

<400> 18717

tgtgtattcc tgcattctac taatatatgg tattgtttat tgcttggcct gagaataaca 60
atcggttgac cacaacagcg ctgggggcg caacggacaa tggcttttca aataaacctg 120
ctgtacatga acaaacatta tatcatgcg tgacctgcc aaacgaacaa tcgaagtcac 180
tgcataattg gtacactaac tatattgaat gtacctgaac aaaatgatat acaaacacgt 240
gaccgactca tatgatgcgg tggccacaag agtcacgagg tggttgactt gtaataggga 300
aaaatgatat gattttagt tgggacaacg atacaaggat tacgtgataa cgtgaagcat 360
tcacatatac gatgtctgat atatccatac actatgacac actaacctga atgaaccaca 420
catacgcatg t 431

<210> 18718
<211> 399
<212> DNA
<213> Glycine max

<400> 18718

agcttgggag gattgatggg gaccgggtgt tgagagaaac aaggatatgg gctacgtggg 60
agtacgtgag ctcaattgga ggtgggcaac aggggatggt gggtttatgc gcgctttgtg 120
gatgtggaaa acttgttgtg caccatcgcc cgaccgccac ctagtaccac atgtgatggg 180
taccataa tcctacaagt ttgagatgag caagtgtaga aggggtgaact tcctgctttt 240
aatcgttgac cacagagtgg tacctggaga tatgtcgcgg tggtcaggag acctgtgga 300
cgtcacgtgg ggtgctattg cccaaaacca agcttgacca atcccgaccc aaccgggca 360
tagtcagtca gtgagaacct gtgatgtacc taaacaggc 399

<210> 18719
<211> 462
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18719

aaaactcccg ctnttatcta gccaagatca tacaaaagtg ttactacata tcctaacggt 60
ttctaattat atggggccatc aaatctatca tgtgttgacg gtaattgatt agcccgtgaa 120
tttctcggg ggttgtagac acttcagcga tggcctttgc tttgactagt agtcgcggga 180
ggtcttgact tccattcaag gtcaaggcga acctatccat ccacatgggc gcttcttgat 240
gtaatgcac aatcacctc cctcttgctt ccttctcggc gtacgcttgc acaaaatctt 300
ctactagctt ttgttcatgg gtcaaagact ggtttaactc ttccttgtag tgccctatga 360
tagctagcat gctttgctcc atgggttcca agtggtgagc ctaactcctg ttggatctag 420
agcaagcagc taactcttct ttaagatca tgccatgcac cc 462

<210> 18720

<211> 405

<212> DNA

<213> Glycine max

<400> 18720

agcttatgac tcttggcaat ttctttaaaa ctaatcactt aaaaaagttg tgacttttga 60
aaaaatcttc agaaacaagt cacttgaaga attgtgactt ttggaaatgt atttttcgaa 120
atcagtcatt ggtaatcgaa taccatttag gtgtaatcga ttacacatca acaaatgtga 180
cttttcattt tgaattttga aaatcaaaat gtttagaaac actggtaatc aattacaagt 240
attgtgtaat cgtttacaca agtttgaaat gatttgaaac tgttgaaatt tgaaatctaa 300
cgttttaaaa cacgtgtaat cgattactat tatctggtaa tcgattacca gagagtaaaa 360
ctctgtggta atgatttgtg gaaaacttct tgcgctactc aatgt 405

<210> 18721

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18721

tctagccaaa tggacttacc ttgaattaat tcctttgatt tcccttttga gccttgtttc 60

cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
 cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
 acattgtata ttggttaaat gttggacatg ctgaatgaaa tgttgtttct caaaggctaa 300
 aaaaaaaaaa aaaaaaaaaa attcgaaaaa aaattcggaa agaaaaaaaa aaagaaaagc 360
 aataaagttg agtgaataag atcttaaatg gcacaagaat gatgaaactc ttggttctac 420
 tcttcatgtn ntaattttat cccttctt 448

<210> 18722
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18722

agcttattgt ttgtttccat gttcaaata aattagtgtt ttgaagggtg ttcttttata 60
 aagtccatgc aaaaacatct aaattcattt ggttatttgg gaaatccatt cattgcttcc 120
 attctcaatg ttttaaaaaa aaaatcactt tgttgtgttc tgatcatcaa aagtaagttt 180
 caaaaacatt ggttgttgat tctttccaaa gaatgttatg tccaagaaaa atttcatgat 240
 taagtcccaa aaagagttat atataatcta caactacact aacgtaacaa aatatatcaa 300
 agcacgtgta aatcagacaa aaagacaatc tcgcataagt tttcaagcaa aaaatccaaa 360
 acaataaata agatactaaa gtactaaaaa ttntagtaca aagcgataaa taaa 414

<210> 18723
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18723

ntagccgctn taaactctgc atttagttca tcatcttggt ttaagacttt tactcctagg 60
 ccatctggaa gaggtcaagg atcaciaaga gctgcagcag tggctgctct ttcacaagtt 120
 cttacggccg aaaagaaaaa atcacctgat ggttctcctg ttgctagcag gagtcctatc 180
 actcaaggta gcgctactgg taagaaaaac agttcttgtc taaatatgat gttgcattcc 240

cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
 cattggaáaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
 acattgtata ttggttaaat gttggacatg ctgaatgaaa tgttgtttct caaaggctaa 300
 aaaaaaaaaa aaaaaaaaaa attcgaaaaa aaattcggaa agaaaaaaaa aaagaaaagc 360
 aataaagttg agtgaataag atcttaaagc gcacaagaat gatgaaactc ttggttctac 420
 ttttcatgtn ntaattttat cccttctt 448

<210> 18722
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18722

agcttattgt ttgtttccat gttcaaatca aattagtgtt ttgaagggtg ttcttttattc 60
 aagtcacatgc aaaaacatct aaattcattt gggtatttgg gaaatccatt cattgcttcc 120
 atttcaatg ttttaaaaaa aaaatcactt tggtgtgttc tgatcatcaa aagtaagttt 180
 caaaaacatt ggttgttgat tctttccaaa gaatgttatg tccaagaaaa atttcatgat 240
 taagtcccaa aaagagttat atataatcta caactacact aacgtaacaa aatatatcaa 300
 agcacgtgta aatcagacaa aaagacaatc tcgcataagt tttcaagcaa aaaatccaaa 360
 acaataaata agatactaaa gtactaaaaa ttntagtaga aagcgataaa taaa 414

<210> 18723
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18723

ntagccgctn taaactctgc atttagttca tcatcttggt ttaagacttt tactcctag 60
 ccatctggaa gaggtcaagg atcacaaga gctgcagcag tggctgctct ttcacaagtt 120
 cttacggccg aaaagaaaaa atcacctgat gggtctctctg ttgctagcag gaggcctatc 180
 actcaaggta gcgctactgg taagaaaaac agttcttctg taaatatgat gttgcattcc 240

ctgaatacaa tgggttggct gggttgaata ttttactaca ccctattact ttggtttata 300
 cttttgaaat ttgaataatt aatataatcc tttttgttta gttctaatta tttgatattt 360
 tttaatcata ataatagata ctgctagtaa actactaaga gtggagctct aagcgctaca 420
 ttgatgtact actaaggggt ttattgagat tc 452

<210> 18724
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18724

agcttagctg aattcaaate aaattgaagt tagcttagct taaccttggc caacttagcg 60
 gactaaatca gccttagatg caagggttgg gcgctaagtg ctcaagactc gtggcttagc 120
 acatgaacag agatgcgctt agcgcgaggc ttgcgcttag cagaaggact gctttttttc 180
 agaaaatatt ttctgagtta tttttcagtc ctttttccat gaaattgaaa cccttatgtt 240
 aagcattcaa agataggctg atatactcct atgtacagct tacatagcaa gttcctaatt 300
 atcaaagca tganaaacia acacaacana gattaaaact aggttgcttc ccaggaagcg 360
 cttctntaac gttattagct tgatgctttt acctctctgg gaaatctcat g 411

<210> 18725
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18725

tacttttagct agatgggtcg attgccaaac ataaagctag gctgggtggct attggattca 60
 tgcaacaaga aggttttagac tatactgaag tatttgcctt agtagcaaga ttggagactg 120
 taagattgat tgtttccctg gctagctgga gaaattggaa actgtggcta ctaaattgtca 180
 agtcagcctt tctaaatggg ccacttgatg aagaagtttt tgtggtacaa cctcctggct 240
 tcatatgtaa aggtaaagaa caaaagggtt tgagactgaa gaaggccttg tatggcttga 300
 aacaagcacc tagggcatgg aacaaaagga ttgattcctt tctcactggg tttggctttc 360
 agaaatgctc agttgagcat ggtgtgtata tcanaacagt aagtgaaact aagattgtgg 420

tgctatactt agatgatgat gatttactca tcaactgatag tag

463

<210> 18726
<211> 395
<212> DNA
<213> Glycine max

<400> 18726

agcttctgag ggtgcctatt gtgtgctgct ttttttttat gcaaattccc ttacgaatca 60
tccaaattaa ggacttatca taacttgaca agtgtaccaa atttgtcaca agtagtaagg 120
gactctgctt gtacttggat taatgcaaat caaatTTaaa agcaatggat aaagaattta 180
aaataaagat aaagaaatat attagataag ataaagattt aaagatgaaa ataaaagatt 240
taaattaaaa gatgacaaag atagaagata aagaaaataa gaaagataaa agattaagat 300
aaagataaga taaaaataga aaatatgata aaataagaat gtgataagggt tgggacctga 360
cctgccttgt ttgcctagga tgtatgagtt tatga 395

<210> 18727
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18727

ttcggctgct gccaaacctt tcaatccagg aatgttgtcc ttgtctcacc atctaaattc 60
agcttccttc acaagcatgt atgatacaga tgtagtcaa ggcattgcacg tggagcctgt 120
gcttccccct gctgttgcta gggtccttg tgggcctaga tcacctctgt attatagaac 180
caactatact ttctgcatga aacatggttc tactaaagggt caaacctcta tcaaagaaag 240
aagtggattt gggctctcaa gaataatgaa tccgcatgag ccagagttta ttcccagaag 300
tgctttctcaa atagaagcca aggatgccaa ttcaaatggt tccaatgagc ataacccttt 360
gtctgacgaa ggcattgccag aaaanaacaa gctagatgaa aattttgttg aaatcaaggg 420
gagctccaca aaatacagta tttctgaatc tgagaagt 458

<210> 18728
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 18728

agctttttcac tctatctatt tttattaaaa ctcacataag acgataatgt gtatctattt 60
 taagaaaaaa tgaaattttt aaaaatacta ttcaaccttc cttgtgttat ttgtctatgc 120
 acaaataatg taaggacata aatagctcac tagaaatgaa gcttccattt gaacttcatt 180
 tgaaatatat aatttgtctt taaatacaaa gaaatcacgt tttctcaaaa attaataaat 240
 aagtaaaaaat gaaaatgaca aaacaatctt gttccctttt aattnttctt tctccttttc 300
 acctttttcac taaatcatgt atttaattaa tataattaat tatgtaataa aaataaaggc 360
 atcctanaat aaaggtctag taataatcac tttagatgca cttctg 406

<210> 18729
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18729

tcaattgcag ggatgggttca caatctttac cttcatctgc ctcgaaggta tttatgcctt 60
 gtaatacagc ccgaatctat tcttctggaa acatcccata tagctaacga gggtagaccc 120
 tatcagcaac catcttgatg tcagttgccc tagatatatg tagactagga gggtagtgc 180
 tggcttaatc acacaattac atttgttcat gtaactggca tcagtcttat aattggcgtc 240
 gacaggtgca ccttcttttt gaattgaacc ttaggatgtt ccacttcttg caaagggttc 300
 ttgctttggt tgccaaatag ttcttgagag atactacatt gggagtctt ctggctcctt 360
 ntttcttcat attgcaccaa gcttatgaag gagtcacctt agtggagggt caaaccct 420
 attgagtgcc aagtgccagt cactgaggag gcactctgaa aacaaat 467

<210> 18730
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 18730

agtttgtggc cttgttagtt ctggttgctc agtgagggtg gtcattttct tttattttgc 60
 tgtataatat ggccaacaac agaagccaaa atgctaggaa aggaaatcct aatgaaattg 120

ctatgactga actgattgtg tggaatgggg tatatatagt tttgtaatca agaactaagc 180
 acttgcatat aataataata ataatttttt ttttgctaag gcaactagtc ccttggttc 240
 cattttgttg gggttacaac cttgaagttt gaggactttt gccatgactt catcaccttc 300
 aacacttcat ccatgttcct cctagtagtt gcaggtagag aaatctagct tgatctacaa 360
 cactcaccaa ttaatatggt agcctcacta ctgaa 395

<210> 18731
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18731

tatgagacac aatctttgga actgaatatt tatttttata aatcaaaata acaagggat 60
 aaattcttct catgactcaa caaccctccc catcaaaact tccccctctt tccctcattt 120
 tctattcaaa aaaccttcat cgttaccacc actagcggat gcaccttcta tgttgtggga 180
 gcaattaccc caccagattt ttttttattt gttaatgtat ataaaaaaaaa tcccccata 240
 aaaaattata tattgccccca ttgaattttt tttaactcac aaacaaacat aagacattca 300
 atacaaaaat tacatgctca agcccaaatc atttaatcca atttcattat tgttatagta 360
 acacaaaaaa aaaacaccac aactacacg gagcacactg tttcatgtaa catctaanaa 420
 ataatccaat aattatttag ataaagaata tctaa 455

<210> 18732
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 18732

ttcttgatt tccttttagt agggaatcta tccttcttaa gatggagcca aaccagtc 60
 cctcattaa gaactagctc ttttcttctt ctattgcctt tagttgaata cacctttgtt 120
 tggttctcta tttggttctt aaccctctca tgcattcttct ttacaaattc tgacctagat 180
 tccccctctt tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taacggtgtt 240
 aggggattaa acccatagac aacctcaaaa ggggactgct tgggtgttct atgaaccccc 300

ctgttgtagg caaattctac atgaggaaga tactcatccc aagacttatg gttgcctttc 360
agaagagccc ttataagggc ggataaagac ctattcacta cc 402

<210> 18733
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18733

tgtagggata gtagtaggca ttgttgcatc catttggtac ttggatcggc cacattcaca 60
tatatgaaga gaaagaagct cgcaaagaga ggtgagttta tgaaaaagta gaatttgaca 120
cttaatgata tactcaaaaa ttagaatgta aattaactat gagaatgaag agaagttttc 180
aattcttaag tctcattcat attcttcctt atattaaatt gtgaatgata ccaaattggc 240
atctcctacc tttatttcag agatgctaaa aatatttcac tggaaataca aaaggagaga 300
ggaagatgtg gagttatcaa caatatttga tttttcaacc atctctaag ctacagatca 360
atcttcaccc agtaaaaagt taggagaagg tggctntgga ccagtataca aggtagttaa 420
attntacatc aaataagctt c 441

<210> 18734
<211> 397
<212> DNA
<213> Glycine max

<400> 18734

tagtttacia aaacagggtc tgaggatctt gttgatccta ccttgatcgc ttatgtggtt 60
ggtgctctac attatgctac tatcacacat ccaaaaatta gtttctctga caataaagtt 120
ttccaattta tgagtcagcc aacagaacag gattgggttg ctgtcaagag aatccccggg 180
tatctaaagg gcacacttca ttttgggctg aaactggaac ccaatttttc taciaagcac 240
tactctgttc atgccttttg cgatgctgac tgggcttcag acctgatga tcgaagctct 300
acctctgggg ctgttgatgat cttacgcca aatcttgtct cttggtgatc caaacagcaa 360
tctgttggtg ccagggtccag tactgatgca gagtaca 397

<210> 18735
<211> 453

<212> DNA
<213> Glycine max

<400> 18735

gtcatcctat ccaaaatata caatgcttcc ttctacttga ctctctctta cagaaacttt 60
gaatgacaga tgtataagtg acaacatttg gagtacaaac tccacctttc tccatttcat 120
ccaacaattg caatgctctt tccatagacc cagacctaca aaagccatct aaaatggccg 180
ataaaatcac caaattgggc gaacatccat gtagtctcat aaccttaagc acagagtagg 240
cctcctcaga tcgaccgcg ttagagaatc cctcaactat tgccatatac gtaataagat 300
caggacaaag gccattggaa ctcatctcac tggtaactt cagagccgtt tcaatgtcac 360
ccttcttgca acacaacctt ataaccagat tatacatgac agtgtcagcg tggaggttga 420
aagtgtcctc catcttcctc aacaccaca gag 453

<210> 18736
<211> 399
<212> DNA
<213> Glycine max

<400> 18736

tttttgatt gtatatagca tgtgcctacc aaagaagata atgggagagt tttcttatgc 60
gtattgtact atccagcttg acctttccaa gaaaggact ttggcatttg gtaatttttt 120
ggtttcatta ttcaaattta acttattcct cattgctttg aaagaaaagc aggtgaatcc 180
aattggctaa ggttcttacc cacttcaca tgtggaaaac cggaataac acattgaatg 240
cacaaaaagt tgattgaatg tgatgtgtgg aaaaaagac aaaacgaata cttaaaatat 300
aaatactcat aaaatttaat gtcagaatat atgaaattaa agataacgtt gatatacac 360
aataatgatg tttggtacat ataagtaata aatgtgct 399

<210> 18737
<211> 453
<212> DNA
<213> Glycine max

<400> 18737

actcagcttt tatgtaatta tcggattcaa gaagaactct atagttttat acatttaaat 60
tgaaattctg gtaacattta aataacatac aagttcagta gaatttctcc aagcaaatga 120

atattctaaa gtatattcag agaaatcttg agtaaaaaac tgctacttaa attgtagtgt 180
aaagtttttt aaccactat ctttgttcat tggcaactag tataaaaatc attcacatac 240
ttaaaccaat atcttaaaga agttccaagt aaacagtcta taaggaggtt tgagtaatga 300
tgacacgatg cagcagacgc aaggcctata aaaaaatgca gtaagcgtaa gaataattta 360
ctacaaaaca tatgaagctt actagaatgt taaaaacaga accgcagaac atctaggagg 420
aggttgtaag aaagagcatg atgaagagag tca 453

<210> 18738
<211> 255
<212> DNA
<213> Glycine max

<400> 18738

tgtttacact gacacgtact gaggattata ttgatgcttc cttgcgtgga tatgtggttc 60
ctgctataca ttatgtact atcacacact gaaactttat tctctcagaa cgtatagcat 120
ttcaaattat gagtggcca tcagaacacg attgacatgt tgtacagaga aagcccctgt 180
acgttaaggg cacactagat tttgggctga aactggatca cagattttac acgagcacta 240
ctctgtgcta tgcct 255

<210> 18739
<211> 500
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18739

agcggctggt tattatgata catcgaattc cggacctata ntactcagct gtattcttcc 60
gagactacgg gcagactgga catgcctctc ttacagacac atggtgtgac agatgtatga 120
gtgacagctt ttggtgtccg cactccacat ttgtccattt gatcttccga actccgatgc 180
tctgtccata aaccgcgacc tactatagcc atctaatatg gtcgataaga tcaccagaga 240
gcgcgaacat ccacgtagtc tcataacctt atgcgcagag tacgcctgct gagatcgacc 300
cgcgttatat gatcccgca ctatggccat atacgtcgta agaccacgac gacggccgtg 360
ctaactcadc tcaactggtcg cctgatgagc cgcacagtg acgcccttct tgcgaccaac 420

cttgtaccag acatacatga tactgcagag gagagttgaa gtgtgctcat ttgctcatca 480

cgccagagcc atattagcag 500

<210> 18740
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18740

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tatctaattg tattcattat gcgatataat ttgttataag ccattaaagg ataattatta 120
agtactcgtt gcattaagaa aaaaattagt tggtgcaacc aaaatcaatt acgcatgtat 180
gatacatcgt tgtcataatt gacaacacat aatgatatgc atgcgtatta aagtttgagc 240
gtgacacgac attgactgac ttgacaacac attctgatgc acgacattgg tttagtagga 300
aacataaaca cgaaacatat tcacgcatgt tcttttgtaa aaaaatgtga agcaatctgt 360
cagtgagaac catgtatata tatgagacac ggaanatgct a 401

<210> 18741
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18741

nttaattaat taagaatgca tatatgatta ttgtttgtgt agcctaattgt ctctgtttgg 60
tttggttttt ttctttcaat ttttttatgg aaaacactaa aaataaattt tattgtttta 120
gttgtctctg cttcctataa aaacttttaa aaatagaaaa taaaataaaa taaaaattga 180
agtaatattt tataattaaa tataaaccag cacctggaaa attttggttat gtagaaataa 240
ggactattga atatatagca cttgcctctc acttgctttg gactctttgt tggaccagtg 300
atgtccatgc catgacttcc cacatagtaa agttctgcc aattntacaaa gttatatacc 360
tganaaaaat aaatcagaaa gaactccaat taaatctctc aagaaaagaa taaagaatca 420
tntaatcact tccatgtca 439

<210> 18742

<211> 401
 <212> DNA
 <213> Glycine max

<400> 18742

agcttgcaga caaatcttcg ttctggttta atcgattacc ctatttccat aattaattac 60
 acaattctat tgagaccatg tctatttctt ggggtctctgc tttaatcaat tatgagggtta 120
 tagtaattta ttacattggt cttgaaagta ttttcaaaag tgattaagaa tagtttaacc 180
 gattaaatca agaatccaat caatttacat tgttcttgaa tgcttttcat gtttggggaa 240
 gaacacttta atcgctttta atgagaatct aatcaattac ttcttcgaga taatcgatta 300
 cattggcaat tcaattgatt actagcgaat ataactgtgt cctttctata tagccacctt 360
 gtgttcacac tttcaacaat gattaaagaa cgagctttca c 401

<210> 18743
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18743

tcttatccaa ggcaattctt ggtggtgaag ctccctttttt cttggcttat tccctagtgg 60
 atgggtgcctc cctatcctc ttctcctttg ccttcgctg catctccatg gtgaaaaatc 120
 accattgaag gacctcattg aagctcaaag atccagcctc catagaagct ccacaagcaa 180
 gttccatca agtggttaata agagcacaag agcttcaagt agtggtcctt taaacctcca 240
 ttaatttttt ttctttacct tctcttccat tggtgtttct tcatttttct ccatgtatct 300
 cctcacatgt cttgttctaa atgatgttaa catgattctt tagagtttcc accgattaaa 360
 cttgctatag aagctagatt tgattntcta tggttcaaat ntcttggtct tgttcttgaa 420
 ccatg 425

<210> 18744
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18744

agctttgatg gtgtcgagaa gaaatcacat gtttgtcatc atcaaaaagg gggagaatgt 60

gaatgtatgt atacatgatt ttgatgatgt ctaaagaaga atcaaacaag gctcattttg 120
 cttcaagatt aatacaagat tgtttcaaca aacaaagcct tgattcaaga tttcttcaag 180
 atcaagcctt gcctcaaaat gtagagattt caagtcaccc aaggcacatg taatcgatta 240
 ccaatacatg taatcgatta ccaaggcaca tgaaagtgtg taatcgatta cacatcatat 300
 gtaatcgatt accatagact ctgaacgttg ggaattcaaa ttttaaataga agagtcacaa 360
 ctgttcaaga taaacaattg tgtaatcgat tacactaatt ctgtaatcga ttacc 415

<210> 18745
 <211> 327
 <212> DNA
 <213> Glycine max.

<223> unsure at all n locations
 <400> 18745

tggacacgga aatatcgata tatgggacng nnnaagaggg gatagctcaa ccacaaaaan 60
 ccaggaagac ccagagagac attttttgtt agcaaggaaa ggggtggctg gtgaggcccg 120
 agaaccaccc atatgcccc gcgagggagg gaaataaata ctaggggaaa agaataagcg 180
 gaaaatagat caacataaaa tttggaacaa aagggaaggg gggacagata aatggagggc 240
 aaggcacagc caaaggcttt acgaaaacgg atgaaggaac ttaaaagtga aacaacatca 300
 taaaagagaa atatgaggcg agagggc 327

<210> 18746
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18746

agctttaagt tttgatttta gttttgatgt gcctcagttg ataagtgcct tcgaaaatat 60
 ctgatcaat attgagaata tttataaatt tcttgaatca aattcaatta gttaaatatt 120
 tagttttgat tcaagaaata atgaaagttt tattataggc ccttgaaaat agtttgagga 180
 ttttgaaaat ttttaattgat ctaactaacc accatttttg atccaggcat tttgttttaa 240
 caataatata tatataattt attatttagc agtagtaact agtaaactta tgtttaacgt 300
 tggctcact attcaagtta agtttggtta tttagtaatc ataaatatat tttctttgat 360

ccatgaatga taattataat gtatataaat tanatacgta aataattaga t

411

<210> 18747
<211> 456
<212> DNA
<213> Glycine max

<400> 18747

actaagcttc atgttctgac acatcttctt gctctaattt tctaatactt gtccttaaaa 60
ccaaaacaag aacccaaact gacaaattcc aaaaggaaag aaaaaaacat tgaagttaac 120
tataattcaa cctatacgaa gagaaaacat gtaattgtc ctaacaaaa atgctataca 180
acatgaatgc atcaccaagt tacaagcaaa catttttata atgctctaatt cctataaaat 240
acgaataagc tgattaggtg aaatttagca gccgattgga ctctgtgcctt tagtttgaga 300
caaatgacaa tagtatcgaa tcttttcagt aaaattgtta gtgactatgg tacaattcaa 360
gcataaaaaac gtcgttttcg ttgtttataa gtcattgtcat actttttataa ttccatggcc 420
atctatgtcg cctaccttca tttcatccag ccatat 456

<210> 18748
<211> 333
<212> DNA
<213> Glycine max

<400> 18748

agtttgcccc cttctttcat aatttacgga aaagttacgg aagtatataa gactagcttt 60
ccttcttttt tctcttctt accaccata ttaagagaaa tatgcttatt gatggatatg 120
ggaattgtac cgaagcacta cgggtgttcc ggaagccccg aaagcccatt gtgtaacaaa 180
acggggggagg cggttgccac cttaagcaag acaatgccca tagacctggc ccgattttga 240
agattactat ttgcaccccc cattctacat aatacacacc ctttgccctt attttcata 300
acattacgga acctcacgaa ttacgtatcg ata 333

<210> 18749
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18749

cataacccaaa caagaccgcc caccacaaca cggaacnaat aaccntncca aggggagnat 60
gagacaacga gacaccgaaa cegcgannaa aaaacccgga gacaaaagca aacaggggaa 120
aacacataac agcagagccc caaggagggg cgaccaaaca aacacaagcc cacgaagaac 180
acaagggaaa aacacacaga agaccgcag agcaaaagaa cacacccaac agacacacaa 240
caaaaccaga aggggacaaa agacaaacag aagaagnggc caaaaccaca aaaaacagaa 300
aaacagaagg agaagaaaag aaagaaacca gaaaaccaca gaagggaaaa gaggaagaa 360
cgacaagagc aagagaacag acaaaacaga aaacaccaag acaaaaccga caacacgaaa 420
aaacgggaac aaagccccc 440

<210> 18750

<211> 307

<212> DNA

<213> Glycine max

<400> 18750

agcttgtgat atatttacta tatacgtgtg agacctcgt tatccctacc tgttcaaaaa 60
tgtgataaat cactctcat gtgttgccca tgtctggaac atgtgatgat cttaaacctt 120
gcgcacgtga gagcaaatga ctaggtgaat cactttaaga aaccttgtga tggaagactc 180
tgagacacaa taatctgata ggatgtaaca ttggaacaag agcacctatc gtaactcgca 240
tgacgtatca aacatgccat tcgactttat ttgatagacc cgaacagact agctctaagg 300
cacaac 307

<210> 18751

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18751

aagaagatct ccaggatgtg gatcaataat taacaactat ttcgaaagtg caaattaggt 60
tatgagagcc ttcttttaggg ttctcaaagc gtattagagg cttcttttca atggctacta 120
gatgtagtta agtctttaca gaactgagtg aatgaactaa caatattaga aaattacagg 180
acacaagaaa tacctccatt attatcagtt aatggtacaa gagtcttcaa gtgcacatgc 240

agtgcataca ataatcaaaa tcaagacaag cacaaaacat gcaaaaagtg cacaaacata 300
 tacaataaaa aaaaacatta aaaaacccaa aaacagcctg tacagtgaag aggtgttctc 360
 gctctccaaa cctccaaaca gcgaatcaag caagcaatng attggtagtgc gcggatgaac 420
 ctgatttcaa aattgattgg tat 443

<210> 18752
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18752

agncttgcca aaagcttgcc gctggagctg acccattaac cgccctaggg tcttgacctt 60
 gaccttgact tgatagaact tttttttaag tgaaggcatt tgaattgac ccatgtttta 120
 ctaaagtga caaaaatcgg tgcgaatcaa aactccgaca tcaatcatga gtggaatgga 180
 tgaatgcatg aagaaatgca tatgacacaa atgcaattta tgaatgcggg agcctgggaa 240
 attatctctt tcttagatac aacgtcttgt ggtagcacag tgcccgacgt atgtatttaa 300
 gaaggtgaca cagaccctcc attgggttgc caaagagagg ggatcaagac anaacccgtg 360
 catgatgcat atgcgatagg cgcaacacgg gaatgtacag atgac 405

<210> 18753
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18753

tactaagctt gttgggcatg ccgggttcta caggcgattc ataattgata nnctaaangt 60
 cgccaaacca cttagcagtt tgttgaataa agatgttgct attttgttta atgaagagtgc 120
 tatggatgca tttaatgatt tgaacaccag attagtgtct gctccagtaa ttatagcacc 180
 aaattggggg caagaatttg agctgatgtg tgatgcaagt gattatgcca tatgtgcagt 240
 gcttgacaa aggaaggga aaaattttta tgctatatac tacgccaaca tgggttctaaa 300
 tgatgcacaa gtgaactatt ctaccacaga aaaagaaatg ctggttaattg tttatgcact 360
 tgtaaagttc atatcttate tggtaggctc aagagttatc atctacactg atcaccgacg 420

tattacatat ttgctc

436

<210> 18754
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18754

attattatgt atatgtgatt tattgcctat gcaaacattt tagaggttac atttttcact 60
ttttgagtcc ataaaaaat attttaaata ttatactttt ttggataata tataaaataa 120
cattagagaa acttaatatc atggcctaata aacactaaag tttaaataa cacattttta 180
taggtcttta acactcggag tatacataaa aaaattataa tacttagatc taagttacaa 240
caatacacia taatattcat taaaaataac aatttaaata tacgataata acgaaaatga 300
caaataattg agatgatttt tttaaggaaa aaaccaaata gacattgtaa ttgatacaag 360
agactaaatc gaactntgtg cattatgaaa cgcgcatgga caaag 405

<210> 18755
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18755

tttattntga tgtagatta aattgatcgt tttttctgtt ttttttttaa cactaacatt 60
aatgtgtggc aaatgttcat ttgataatg gcattctctc actatagggtg atcaagttag 120
tgtaataaat tgacggagat attaatgtga tcttaatat aataccttga aggattaaag 180
caaaattttt aaacttggat aatcaaatta aacaaaaaaa atgaaggtaa aaattatatc 240
ttagccatgt tatgtcatgc atgtaaaatg taatagaaaa acgatgggga ggggtgtttt 300
ggagggatga gaagaaatgg ttgatgggga ccaaagttgg gttctggggt aacattntgc 360
gtttctactg tgccaagacg tgggtggagg aattttgggg aattaatgaa cagcagggtt 420
ggggccacct atctgtcatc tttatgta 448

<210> 18756
<211> 338

<212> DNA
<213> Glycine max

<400> 18756

atTTTTggag atatcaagt ccaacacgac atcttctttt gaccagacat catctggctc 60
caattcatta gggggcctaa cttcagtgac caacatcatg ggatgtaccc agcctttgat 120
gaccgctttc caagttctgc tatccagaga tctgaggaag gccaccatcc ttgctatcca 180
gtattcataa caggatccat ccagaataga gggctctgtaa actgatccac cttctatcac 240
catgttcaac agacaagatc tccctagatc tcaactcacag ataccgagtg ccacgactga 300
taccaatcga aattatgata ccaaagccac atgacgta 338

<210> 18757
<211> 380
<212> DNA
<213> Glycine max

<400> 18757

actcggcctt cttctatgat cagattggga atgcctctaa cagcaccttt gtcaatgatt 60
atcttcatgc ctcttaagt catatgtcca aatctttgat gccatatatt gacttcatct 120
tctttggaga ctagacatgt ggaggagtaa ctgggttctt gaggtgtcca tatgtaacag 180
ttgtcctttg atctgctgcc cttcattatg acttcaactct tctaatttgt caccaagcat 240
tctgactttg tgacagttac attgagtact tcatgacaca actgactgat gctgatcaag 300
ctctcagtca gtccctttac cagcagtact ttgttcagac taggaagtcc ttcattggact 360
acctgtacca ttccagtgat 380

<210> 18758
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18758

cgacattcta gcaaacagca aaganaccgc aaggacctga tgaccgccga cagcгааааа 60
aanccaacac cgtggctacg gtatgagcat cacaatgcta ggcgcaagga ctaccggaag 120
ccagaaacac gacaaggcta aaaganggac ggacgaccac ctgcgacgag acgaacaggc 180

gcaacatacg agcaacatac gcggaactgg acacgaacgc aacaagacaa gaagacgcac 240
gccgacgaca cgcgcgatca taggaaggcg agcagaccag gaaacagcca taccgacaca 300
ccgaaacaag cgacaagcgc gacacgaatg gacccgatat ccagaaactg cacagcgaga 360
ccagagacac accgaggagt gaggcagatg acaggcgcat gaccagcaaa cccgcgacct 420
gatgacaccg cgaagacacc gccactggac tggagcacac ggacaacatt gcc 473

<210> 18759
<211> 656
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18759

gaggtcaact gtacaggaca cntgacgcaa actcacacac gaccnagacg acgttnacnn 60
nannhannna nnaagagggg agngcgatg atgacgatcg gttagcacctn cgnggacact 120
annagaanac nncanagcga ggccgcgagg aggggcgcgc nncagacag agcgacacag 180
taataagcaa gctcggaacg gcgcgcacga agacgacgcg gcacgcggca gagcggacac 240
gaagacgccc gacaacaccg acgccaacaa gacagaggag gacaggccag ccgagaaccc 300
gaagccgaga cagacagcag cagtagacga gcaccaacg cgcgacgaca ggacggacac 360
aagcgaggca ggcacctgag caccaagaag ccctgaccac gaaagaagga ggccaagagg 420
ggcagaaggg agcacagaag cgaggggacc caccgacag ggtataaccg ggggggacca 480
ggggaataga gaaccccaaa cgcaccacgg aagcgacaac acaagagaag agggcgaccc 540
gagacgcacc aaccagacga gagcacgaac caggggagcg cacaagtgc cggcgcaagc 600
gaagccacaa gaaacaagag cggcacacaa tgaccgaacc gacccgcgac tcgccg 656

<210> 18760
<211> 388
<212> DNA
<213> Glycine max

<400> 18760

tgtctttacc tcacgtctc tcacagcctt tagatttggg agccaatcca gtccttgtgt 60
tcggactctc agccacttac gatagccgcc gatgatccca ttactgttcc ccctaagctc 120
tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttgagta ccctgcggtt 180

gtggtcacta aaaccccggtg cgatgaaagg cgtgatgctt tcgtctaata ggcgtcctct 240
catggggtag ccaagctgtc ttatggcgag aacgggatta taattaatac aaccgcttgt 300
tcccatcaag gtaacatttg gacatccttc gcatgaagat agtatcttga ttcttgccctc 360
tttctagcga gggaaccaat aaacagac 388

<210> 18761
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18761

tctatagaag gttcattcct aatttctcta catttggtct cctctcaatg agctggngaa 60
gaagaatgtg gcatttacct gtggtgaaaa acaagagcaa gcctttgctt tgctcaaaga 120
aaagcttact aaggcaccta ttctagctct tcttgacttt tctaaaactt ttgagctaga 180
atgtgatgcc tctggagtgg gagtgcggagc tgtattgtta caaggtggac accctattgc 240
ttatcttact gaaaaacttt atagtgccac cctcaactac cccacctatg ataaagagct 300
ctatgcctta ataagagctc tccaaacttg ggaacattac cttgtttcca aggaatttgt 360
cattcatagt gatcatcaat cacttagtac attagagggc acagcaagtt aaacataagg 420
catgc 425

<210> 18762
<211> 397
<212> DNA
<213> Glycine max

<400> 18762

agtttaattt caatcaattc aaaattaaat ggggttaagt ggggaatgat ttaaatttc 60
ttaatcgaac tcttattaaa caataatgat ggtattatat tctattacca ggacaggtgt 120
atcattggct ttccttgctt ttgcaagagc gcagattttc tccacctaac gtcctaaagt 180
tgcgcttatt aatgttctta tctttgcata tatataagta ttgttaatgt tatttttaat 240
ttaaattagc ttttttttaa taattactgt caattttcaa ttataaaaa atgtcaattt 300
tgacaaataa aaaaaaaga atgacaataa cggtgaaatg tttatgcggg ttcacaataa 360

ttaaggatct agaactaact tttatcttct ctttagt

397

<210> 18763
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18763

tgtcaattct cttgtgcagc tcgggatcag aatgtgtatc aacttgtggc ggagcaggag 60
cagaatcata aaacggagat ggaacaagag gaggaggata atgcgaaggg tatgcagggtg 120
gtccttgggtg ctgctgctgc tgctgctgaa gtacaagatg aggcggggga ggggcatgag 180
ggtgtaatcg tggaagtggc tgttgctgct gctgcacggc aggatgataa tggaattgtt 240
gcataggggg gtgtgcatga ccaggacctg tggggataaa aggagaaccg ngcattgacg 300
aaggaaactg ctgatgctgg cgatgaaatc caaactgctg ctgtcgttgc atattagcag 360
cttgtcgttg ttgctgagca tatgccatag cagatgcaga tgcataatca tgaccctggc 420
gtcccataac ctcaacagca cttaagaagt agtattatct t 461

<210> 18764
<211> 410
<212> DNA
<213> Glycine max
<400> 18764

tttcatgcaa gcttaaccac caagcataag ctatactca aagttaaacc acttggcaga 60
agcaacgagg cttaaccatc aagagcagaa gcaaaacaac aattcaatgc ttgaccatac 120
atgacaaaag cttaacaat gcttaatcac cacatacaga agcttacatc atcacaatag 180
aagaatcaca aaatctggct tctatgagaa ctttttgtga caccctctac cctcacata 240
tatactgata aaggaataaa aatctaaata ttaattaata gtatctttaa atacaagcct 300
ttcaaaggg taaaaggctc atattcactt tcttctacat catattcaca cttgtccaaa 360
taaataataa agatatctcg gtttaagcaa gaccgactaa gacttcatac 410

<210> 18765.
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18765

ccgcttcata ggtggaatat gaaccaaag attatttcat gttctncnag natgactgcc 60
acattgtgtg gaatttggct tctccaattt gcatattatg gcaatcactt cgaatctgta 120
aaatccatgc atattgatag ctgcaaaat ctaattagtg gaagtaaagg gaatgactac 180
tgtcaattct gccccaccc ctttttttcc ttttctttt ctaagatcta ttttggttca 240
tttgtgtatc acttatattg ggtttttcgt tcttacagct tcagaaatga aacttctggt 300
agcaaataaa taatgaaaga atntctgatg gtggcactaa gagccacaag agaatacct 360
aggggtctaaa agtctactac agagaagata aaatgctgca ttttaagatat ccgtcattca 420
tatgtgctcc aca 433

<210> 18766
<211> 400
<212> DNA
<213> Glycine max

<400> 18766
agcttattcc aagccacgat tgatcagatg gatactgctg cttcaagaat ttgatttagt 60
catcaaggac aaaaaatgtt ctaaaaaatgt ggtagcagac cacctatcca gattggtgaa 120
tgaagatgtc acttcaaaag aggttgaaat aagagataaa tttcttgatg aatctttggt 180
tctgattgca gggagaccct ggtagctga tatggctaata tacaaggcag caggtgtcat 240
accaaaagac ctcaattggc agcagagaaa gagattcttc tatgatgcac acttattcaa 300
agtaagtgtg gataatctcc ttcgaagatg tgtgacaagt gaggaggccg acggcatatt 360
gtggcattgt cacaattcac catgtggcgg gcattatggc 400

<210> 18767
<211> 445
<212> DNA
<213> Glycine max

<400> 18767
tctcgatcatg actgttggat taaggcgatg cttactgtgt tacatgctct tcaacagaac 60
caaacttggc ctcttacctc tctaccacca cataaaacaa ccattgggtg tcgctaggtt 120

tacaagataa agtatcatgt tgacggctcc gttgaaaggt acaaagcacg cctagtcgcg 180
aaaggggtata cccaaatgga aggtttggac .tttctagaca ccttctctcc ggtagcaaaa 240
ctcaccactg tgcgtttact cctcgcccta actgcactta ataattggca cttacgacaa 300
ctagatgtga ataacgctct ccttcatggc gagcttaatg aagaagtcta catgcacatt 360
ccttagggtc tttctgtgga taatcctcat cttgtttgtc gccttcaaca ttccttatat 420
gggctcaaac aagccagtcg acaat 445

<210> 18768
<211> 658
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18768

gatcgagaca cgngtcgtcc gggttaagcga gatacacgaa cagacaaagg accaccaacn 60
annaaagaag cagganttga gacgcngnta cggcannggn caacaacna aancgcaggc 120
gccganacaa nacaggcnca ccggcaaaca caacaatgtt tgcaagcagg acgaancncc 180
cacacgcgga ggaggacgac acagcagcaa agacacgcca ccgcacngac ancgaacaa 240
cgaaccgaag acagaaaaca cagcgaagaa gggccggcga gaacgaagcg agacgaacac 300
cacanaggca acgacaccga cgcgcgacgc gacnacagac aagagcaacc agcgcgagcag 360
acggaacaaa caacaacacc aaagcgcgca acacaacgan acgcggggcga caggagcaga 420
cggacngaca aacaacgnaa cggaaggggc accacgaaag aagaagcagg aggcacgcca 480
acacccacg aaaacaaagg cgacgcaaca caacaacacg gaacgacaga agcaaccng 540
aggacaacgc acaggcaaca gacggcacng aagcgcgagn gccgcagaca cggcaagaga 600
acggacgacg gaccgaagag cagacgcca acaacagcga caaacgagga agaggccc 658

<210> 18769
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18769

ggacgtttta tgtgcttgtt tccgcgcctc gaatctaagt gggaccgggt ccagactat 60

atcgaccgac gatttattgg gaccatggtc ccagactaat aatcagaccg acgatacgag 120
 tgggaccgtg gtcccagtct gattatcaga ccgacgatac gagtgggacc gtgggtcccag 180
 actaataatc agaccgacga tacgagtggg accgtgggtcc cagactaata atcagaccga 240
 cgatacgagt gggaccgtgg tcccagtctg attatcagac cgacgataca agtgggaacag 300
 tggggcccaga gagaatattc aggccagtta tgctttctgg cctgtaacaa aggacattaa 360
 gtaaagacag ataaacgtag actaaaacgt ggtcgcatca gggtgctggc tnttcaagtt 420
 ccttaagaat gggcctcaat ttctctatac actcagttgg aacacgagac ctgtccaggt 480
 taagcaccat tt 492

<210> 18770
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18770

agcttgggttc aaccccataa cccagagaat ggcaattttg atcgccaata cttcaacaac 60
 atttcatagg gatgaaagac tcgagaatac gcatgctatg catggaaaat gtaattatga 120
 gattgagatg cccgaagaga catcctttct taattaacca cgcattaggt accatgctca 180
 atcattttgt tttgttgttt gtgtgttttt ttttttaatt ttagaaatgg gtttatgatc 240
 ccaacatggt tgggtcatgg tacctaacac atgcaactaa gaatgcatca tgaattttca 300
 tgcttccttt nttttttgtt tttgttttgt agaggaaaat aaaaacatgt agaacaaaaa 360
 gtatgttgaa cgcataatgca tgatgatgca atgactcatg cacaatggga at 412

<210> 18771
 <211> 539
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18771

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 nananannaa gagnnggggn nnatgatgac tcgaagcacg ccgacaacca anacnacacc 120
 gcaggcnaag acagaccaca cgaggcgga gacccaactt acaagggcga ccccgacag 180

gaagggggag agacagacct ggaacaaacc ggacaccagc gggacggcac gaggcacaag 240
 aacacagacg aggaccgaaa caggcgcgga aagaacaccg caccgaaaga acaccacaaa 300
 caggcgccaa gcgggcacaa aaagaaacag gaggtgacgc caagagaggg cccagaccag 360
 aaaccaggca caccgaaacc agaaacgtgc ggaaaaaggg ggagagaagg atcgcgagaa 420
 agaagaacca ccgggacgga cagagacacg cggaagccga gaaaccagcc aaggaacaag 480
 caggaagcac gggcaggcgc acggcaaact aaaaaccagc acaaacaagg aaaaaccgc 539

<210> 18772
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18772

agttttgcta atgttgactg ctgnggataa gatcatgagt gtttggaggg agcagtttgt 60
 gtcctatatg gatgttagtt caaggaggtg atttgttggg ctgtgaccta aatccataaa 120
 gaagtttatt ctgttatttt ttgttttgtt ttgtcatcta cctatataag gcaaggatgt 180
 cctgtatttc aaagatagaa taagcttcca cttgtatact gcaactataa taaaagcttt 240
 ctgtttttcc ctcccatgga tgtagccttt ctcaaggatga accacgtaat cctatgtgtg 300
 ttcttttctca ttcttctctc ttccaccttt gctgcacaat tcggtgtgta tgacatttct 360
 ggtctactgc attntctgct gntgntcttt gcttgtcttc atcact 406

<210> 18773
 <211> 458
 <212> DNA
 <213> Glycine max
 <400> 18773

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 ctgttgatc gcaggcttag cgcgcgcttc tgttggatca cgggctcagc gcgtgtgggc 120
 ctgcttcaga ttttcttctt ttcttcaatt ttctggcctt ttgcttgtt acacctccag 180
 ttttatatc tgcagccaaa attcaacaaa atatcaatta tttaatattt aagcgcaaat 240
 aactgctaaa taattatttt taaagacaat ttgccttat tttctattat caaaatacat 300
 ttatttagca gttatcaaca tgcttgaatt attaattgta ttttcctttg catgatcaaa 360

tgagacttaa taaaaatgct tgtatgtgcc ttgcatcctt aatgtgtggt ataccataca 420
tccactattg agtcatgagt tatgagactg gccatctc 458

<210> 18774
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18774

agctttattc ccctaggcaa ttgtttagt ggtttatcac caccagaatg ttgttgtagc 60
agttttatgc aaccagaaaa ttttctctgc tgtcattggt agagactaaa gcttaacttt 120
caagcatgtg taagaactaa aatttacaat tttctcgaaa cttaaactata aaatggaaac 180
aaccaagggg gaagatgaat aatttaacat caattataac ataccttttg aaaattagtc 240
tccgcatcat tttcttcttc cgccttgatg atatctgtga ggtgggtcaat caggttcaac 300
tcccacgtat ttttctgatt aattntctgc aagcacacaa aataaaaaaa ataaaaaaat 360
tatttcttct ttttgttttt ttttgtgggg gggggggggg 399

<210> 18775
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18775

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taggaatatt ggattgtctc cttcagcaag aagtttatag aagagacaag gcacagtgtc 120
cgtaaaccga cacaagtggc tccaaaagac atgaaaaaga tagaaaacta gcatggactt 180
gtgtggatca cacaatgata tagataaatg tggtaatcaa ttaaacttaa actcacgttt 240
ttggctgctg agctgaaagc ctccctgtgg ctgatatctg gattactagc cttaatcctt 300
tgaatttcct ccctgcaaaa ccagacagtt gaaaagactt actatntggt tttgctgaat 360
ggaatcatct ttagtctatt ctcatgtttg attgtttatt ntttatcttt tgaaatggaa 420
tcacctatat acctgtatat tctaatatat tnttttaata 460

<210> 18776
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18776

tgtttccatt atgatgaaat cctcccaagg agaggaccca tcaccaaagc catggctagg 60
 agactccaag aagattcggc cagaaatata ggagaaggtc ctanagttct catgagcctt 120
 acggtagatt ctgngtcaat ggactaagta tgagaccact tattttttgta catattagtt 180
 tagggtttca ttatttttgg gtcttgatt tacgggtcca tagtgtaggg aggggtaccct 240
 aataatgtag gattttttcaa cccttgatt ttagggcact tgactagttt tgtataaggg 300
 tagttttgta atttacatgc attaagtgc ctatttg 337

<210> 18777
 <211> 471
 <212> DNA
 <213> Glycine max

<400> 18777

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 ccattctacc tcatgagcat gctcgcggct actctcgaac tgccacaagc atgccattct 120
 gcatggcatt tgtcgtagca ctacaagata cctttggggc aggacgcttg tacactatcg 180
 agagaggagc cactacctta gctgtcctgc accatacact tgctacatga cagacacgtg 240
 ccattgagtc tctgcatgc aacaactatg ttctcatagc cggtatgtgc agtatggaag 300
 accacatcag gggcacatct ttaacaactt gcagtgatgc catatacgag atacacactg 360
 gacatccgtc agcgactgca gacgcgaatt tttgttggtc ttttctgaat tcctttcttt 420
 cattggcggtt ggcaaatcca atgcaacact atgatcaata tcaccagcta t 471

<210> 18778
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18778

agtttggttc gaggtactta cccgtcgaag atcgaagaac gatgaagaac gaatgaagaa 60

cgtcgaagaa cggttgaaac ctttgcgaaa ttcttcacgg aaaacgttac aaaaacgttt 120
 cggaagcgcg tcggcttaga ttttcttcac ggaacaatt tttccaagca aattcgaaag 180
 agagagaagt gcctaagggg ctgaaccctt ttcttcttca ctctctcccc tatttatagc 240
 aaaatagggg agatgcttgc cgcccagctc gccagggcga gctcagctcg cccaggcgag 300
 ccaggttgct tctccagaa gcaacagcct tctggaggaa tattctggag ggcccaagtg 360
 ggctgggtg ctatttgcac cncattttt actaagtaca cccccc 406

<210> 18779
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18779

tgcattgattt acattctccc cttttctcaa gcaatattct taattcttct tgacatcatc 60
 aaaatcttta tgatttacag gaagagcctc cggcacgggc tgaaaagctt gattgatgtg 120
 catattggtg ggtaccgtgg gaggtttact gcgacttang ccacgcaggc attgaagtga 180
 cggcgtgggc atctccctcc ttctcttttg cccagctat tccagtcctc ctatggctgg 240
 taccggcagg ggagacgtaa tcaaatttcc ccctcttcaa acccactccg atcctttctt 300
 cggaggatac caagtccgca aagctggagg gcatgtagcc cactaacttc taatagtaga 360
 atacagacag ggtatccact atcattgtaa tcatttcctt ctcgaccatg ggaggggcca 420
 cttgtgctgc tagatctctc caacgttgag cata 454

<210> 18780
 <211> 389
 <212> DNA
 <213> Glycine max
 <400> 18780

ttcttctatg aactacaatt atgaatagag aattggcggg aaggatgcaa cttcaaataa 60
 acccattggc cttctgtgaa tgttttgtct gtgcgcttaa gattgctctg ttgggtcata 120
 cgattccttg ctogaatgag atttgtttcc agtagctaca atatctcttt cttttgagaa 180
 agtaattcct ctaacaaaga aattttggac acactaagta catgggaggc aatacaagga 240

ggcaatatgc catacaacgg ttcacatagg gacataccta tggctgaatg ataggaggaa 300
 ttgtaccaa attcagccaa tgggaggaaa cggatccacc attgtggttc atcaactcaca 360
 aagcaacaca agtacgtctt taaacatct 389

<210> 18781
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18781

tcttatccaa ggctcatctt ggtggtgaag cttctatttc atggcttatt ccctagtgga 60
 tggcgctcc tctcacctct tctccttgt cttccgctgc atctccatgg tggaaaatca 120
 ccattaaagg acctcattga agctcaaaga tccagcctcc atagaagccc cacaagcaag 180
 cttccatcaa ctttagacaa attcttccgg ttatcccaag aggatgtcgt tcagacataa 240
 tcaatgcaaa aatcaattca tcataccttt ggggcaatat tgtcatgtgt taaggctcac 300
 aagaaatatg tgtctacaaa atggtccaaa caatgatagt gaaacaaagc tcanagaatt 360
 ttctcaatgg cttttagatc tgggtgatgg aatagcttag ccaaagatg gttatgcac 420
 aatacaaatt cctaaatcac tttgacaac agagtttga 459

<210> 18782
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18782

atcttcgaga cttatcctga cgacacccga ggatccagat aaatttcaca ctttataaaa 60
 cgtccattcg gaattcgttg gcctccattg tgagggcaaa ggttttgtct atctccggat 120
 ttgctcacct tgagtctgtg tttgttgga gagattttgg catcgaggta ggtttccacg 180
 gcattgtaga tttggttggt tacgaggcca tcgaactcat cgatgattan ggttatgtcc 240
 aacgagaagc gcgagaacat gttgcggatg tcgttggtga tgtaggactg gagcaccatt 300
 gtgctggcgg tcaactgatgc caccgagtga tgcaatccta ccccccattg gcattggata 360
 gaagactc 368

<210> 18783
 <211> 423
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18783

 cgacttanat ccactattct ttgtcctacc aagttaatgt tgtttctaaa tagattaata 60
 agatttggtg gaattttgca cactgatcaa atttcttata atcttacaaa tggatatcac 120
 tcggtactat tagttttttt ctcttaaggt atacaaagtg ttctgagaaa ttagtatctt 180
 tacaagaatt tacataaagc tttatatgaa agaatgaaag agtttggttca cgtagatgat 240
 tcgtatcttg attttcaaag cttcttctat atatagcctt catcttcaag tattatttgt 300
 ctcacaatgg ttggattctt cactatgate tatgatcgat gtcttgagta tgatggagta 360
 tttaatgctt gcattagatg catgtcgatt cttcatacaa agtccatgct aataggctaa 420
 cat 423

<210> 18784
 <211> 308
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18784

 tgtttgagat gaagaagngc tgacaggcga aacttctctg tgttattgct gaccacagag 60
 tgggacctgg agatatgtcg cgggggtcac gagaccttgg tgactgcatg cgggtgtgcta 120
 ttgcccataa cctaacttga ccaatcccgga cccaaccggg gcatagacgg tcagcgagaa 180
 cctgtgatgt acctaagcag gcgagctcct ggcagtcac tgatataagg aacctagacc 240
 actaagcaag gatgctcgtg gtggctggcc agctgtgaat ttagtgagac atgtggtttg 300
 tgcgctct 308

<210> 18785
 <211> 366
 <212> DNA
 <213> Glycine max

 <400> 18785

| | |
|---|-----|
| tgaacaagt gactaacaac aattccttct ctattgctaa tgtttacact gcattatgga | 60 |
| gacagacatg gtttcttcaa tactgtgtat tcacgtgaat cccaatatat ataccaattg | 120 |
| aggcggttgc cttctgaacg ggaacggagg ttccagagca tcaccgaact gttcaagtga | 180 |
| gacatcagca tcggcctcga tgaacatgac ccgcttgaga gtctatctca gataggatcg | 240 |
| taatttcgcc attataggtg atattagcta cacataggtg gcgtgactca tggagtacgc | 300 |
| ccagcgttat tgtataagca tggaatcgat caatatccac atgtgtggac aaagaatctt | 360 |
| gaaagc | 366 |

| | |
|-------|-------------|
| <210> | 18786 |
| <211> | 407 |
| <212> | DNA |
| <213> | Glycine max |

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ttgcttgcaa | acttgatcat | cctgagataa | taggtggtca | ttctcattcg | aagtggatgg | 60 |
| tgcaacatat | ttctttggcc | taatactaac | ttcaacattt | ttacagcttc | taatgttatg | 120 |
| attggtttgg | ccacaccttc | cacatgtaaa | ctcaaccaat | ttcctcttta | acttatgtac | 180 |
| tgagacattg | gocctcatgta | cagatctcct | tctatatttc | attggccttc | ctgtatggac | 240 |
| ccttttatgt | ggaggaacag | ggcgagtata | ttgagtctgg | gtccaatatt | gcggtccttg | 300 |
| gactgggtca | ataaaatgct | ggtatgtctt | atgatagact | tctattgaca | gccactcatg | 360 |
| acacgtgtcc | tcatgcttcc | ctcctttgag | agttattgcc | gcaatgg | | 407 |

| | |
|-------|-------|
| <400> | 18787 |
|-------|-------|

aatgcacaca gcggaaaagt aaagagggtg gggaagacga aacaatacac aagttattat 360
actg 364

<210> 18788
<211> 388
<212> DNA
<213> Glycine max

<400> 18788

agcttgagat gaggaaatgt tgaagggtga aacttcctac ttttattggt gaccacagag 60
tggtacctag agatatgtcg cggggggtcag gagaccttgg ggacgtcatg tggggtgcta 120
ttgccccaaa ccaagcttga ccaatcccg cccaaccgg gcatagtcgg tcagtgagaa 180
cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aacaaagacc 240
acaaagcaag gaggcttgtg gtggctggcc agctgtgaac tttgattgat atgtgggtta 300
tggcctctgg taatcgatta ccaagggtgg gtaatcgatt acaggcttta aatgaaacag 360
gaggctaaga ggtctctgta atcgatac 388

<210> 18789
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18789

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agggcagagg caaaaaactc tgccccaaac atattcacat atcacagctt tccttactca 120
tatatccaag taacattctt ttctttctga tttgttaacc attggatcga cttgaaaatt 180
ttactggagt ttctagtagtac ataaatctac attttgaccg ttgggatctg ctataaaatg 240
tctagaaccc aaaatatact acctttccca taaccagcaa tgcacaagca tttttctgca 300
cacatcaaaa atttgttgca caattcaaca gcatttttct gcataatagg gcagatttcg 360
aaatccatct tgccacatc caattnttct canatnggat cctacaagtc ctaaatacatg 420
tataaatcat atttaaacca aaaacaagca tca 453

<210> 18790
<211> 411

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18790

agcttagcta gcaacgatat gaaacaccgg atgccatatt ttctgtttcc ggagtccaat 60
aatgaagaga acagagaatc aaagtaatca atttatgtct atttcaacgt tagagatcat 120
tgcacatttg tagcatttct ttacattttt tgtcatagtt aatgttacia gaaaaagaga 180
gactccataa caacaaaaaa gaagagaaaa aaaggaaaca gtcgtgtaag catgatataa 240
taaacttagt atagaaataa aaatattatt gctaaataaa ttaatttaaa atgtccagta 300
aaactaatta ttttataaat ttcctattnt aatgattaaa cnttatttat tcattattct 360
ggaatggcct aaacggccaa acaagacana gtanccctta tataatcact a 411

<210> 18791
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18791

tctgcattga aacttgcaat tcttggagggt ccatacatgt gtatttttcc tggtttgcaa 60
tttttccaat gttttttttt tcagtggagg tggtgactac tgattgtgaa taatacttct 120
gggaatttgg attttaacca aaaacaatgg tatcatgtaa ttcattgtatt tgacatcacc 180
tgggataaaa tcattcatgtt tgttgttggg gaggactat tggttgatta tggtaatgtt 240
ttgttttgtt ttgttcaactg ttctgtcttt gatggattct gttgtaactt gtaatcacct 300
cttcctttta cttaagctgt gatttatatt ggtaaaatgg tgttgatttc ttatcaagtt 360
attctgatat gtaacagaat tgcaatggaa tggattttca atgatatttn taagttnttg 420
cgtgttctag tttcttca 438

<210> 18792
<211> 398
<212> DNA
<213> Glycine max

<400> 18792

agcttatgtt gggcaacaat gatgtaaaaa aaaaaataga aagcaaattc gccaaaggag 60

aacaaagtaa aaatagacaa aagatctcca aattttacaa ggaaggcaca aaagtgcaat 120
aaggattaat gtataagaca aatggagtag agcccaaccc gaaaaaattg gaatgaataa 180
aagtgaaga aaaactctca aggttcttac tcaatataac ccttaaactc tctttgagcc 240
tctttgatcc tttctttcat agccttctta cccctgacca cgttacaacg ccaataaagt 300
ccatgtggat caaggaatga ctaattttgc ttttgtgttt ggattctgga atggaatccg 360
cacgcttatg aatgtaaaaa aataaaaaaa ataaaaga 398

<210> 18793
<211> 457
<212> DNA
<213> Glycine max

<400> 18793
gtgtcggaag ttgtgttcta ctgcctcgat ggattgttct ttccacagag ttgggtccta 60
taatctgttg tcctaaccta aagttgacca catgaagtga taaccgttag gtttgagcag 120
tgataatttg atggtgaaaa aatgagttac gcatgatagc caatgtctta aatcattata 180
cattttatga catacatgtg taatagaagg cttttgaaat atacgaaagc aactacttta 240
gtggttcacc atacgtgggg cttaaaggcta attgcttcga aactgaaagt agttataagt 300
tccttagaaa aaaaacctgt aaagcgtgtt ttcttgctcc cttttctttc ttttagcatt 360
tttaacatgc tatattgggc actagcattt ggtaccttta aatggagggtt tattattatc 420
tagctacatt cttatgtttg actgatgaaa gtgcatg 457

<210> 18794
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18794
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ttccccacag tgtagttgag attataaatg aagttattga caaagtcttc aaagtgaatg 120
gtcaccaact caagtttttt catgagagcc cccaagtgga ggaagaattt gtggcgaacc 180
tctctttggt cttgccaatt ttatgtgatt atgtgccttg aatgacactt gaggagtttc 240

ctttcctttt cttttatatg ttatctcttt gtttgcattt cattacatgc tcacattgng 300
 ggacaatgtg catttcaagt gtggtgggaa ggtttagata aaaaattggt tgggttctttt 360
 ttacgtttct ttgtatttgg tttattagct atatctattc ttctat 406

<210> 18795
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 18795

atcctaaacc aagaaaacag ggcggaggct aaaaactctg cccaaaacat attcacatat 60
 cacagctttc cttactcata tattccagtt acattctttt atttctgac agttaaccat 120
 tggaacgact tgaaaatgta actggagatg actaccacat aaaactacat cattgccgat 180
 gggatctgct ataaaaagtc tagaaccac aacatactac cttatccata accagcagt 240
 cacatgcatt tttctgcaca caacaaagat gtgttggaac attcaac 287

<210> 18796
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18796

gcatgatcaa gacaatgcct attgaacctg atttatttgt gtggggtgca ttgctggctg 60
 cttgtagaaa tcatagggcat gtggagctcg cggaagtggc tgctatgcat ctaatggaat 120
 tagagcctga gagtgtctgcg aaccctcttc tgctgtccag cgtatatgct gatgctggca 180
 aatggggaaa gtttgagagg gtcaagaaaa ggataaagaa gggaaaactg agaaaacttc 240
 aaggtttgag ttggatagaa aatttataac attatangta cgttgggttg tagaggccat 300
 angttttgct tcttcatgaa gagaagggca cacctactgg tataattttt gatgtatcgn 360
 ttgtgtcct catg 374

<210> 18797
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 18797

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caagagtttt acaccggact ttactattct ttgttgggtt gttttacttt tccattaata 120
aaaaaacaca tcaagtcaca aataactttt aagataatta ttctaaaagt caacaaattt 180
actatatgac gaattgcat tgaatgataa tgtaaaaata ttttataagg atgtttatga 240
gtctgaatta atccatgatc caaccctgct caatatagat ccaattatat tcggattgga 300
taatgggttg taaattgtca acttgtaatc caatccgacc cggtcataata ataaaaaata 360
ttaatattat taataagaat ataataaaga cttaaattatg attttgattt tttttaattt 420
ttaaatntat gaatttggtc tcccta 446

<210> 18798

<211> 409

<212> DNA

<213> Glycine max

<400> 18798

agcttgtaca atcaccatag ccatgggtca atgattgatt ggtaaaattc ttttttctt 60
ttttccccag tttttcaaaa agcaaaaaga gttgaacaga ccaatgaata agaattcata 120
tattcagaaa attccctctc cttaagata aaagacgagg atgcactttt ggtttccggt 180
tgggggcctc acttgttctt tttctctacc ctccaccac cattttctct tccatgccca 240
aaatgcatgt cctctttctt ttttgtttt tccattttca ttctgctgaa accctttcta 300
ccctaattct agagtacaat gccctgctct ctccgttcag ccattaccga ctctccacca 360
cccattcttt ctctgtggaa caccttcac ccttactact cctagctcg 409

<210> 18799

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18799

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ccatgtcgac accaaacacg tttgtttcca aggaaaaagg gataatgaag tccggcaaga 120
gtaaagtagg ggctatagaa agcacatcct tcaatccagt gaaaacttgt tgcgcttag 180

atgaccactc aaaggggtac ttcataagta acctgggttaa ataagctgca atggaggcat 240
agccacgaat aaatcgggtga tagaaacccg agaggcccaa aaaactgtgc aaggccttgg 300
aggaatgagg tgtgggtcac tgctaaatgg cttggacctt agccgacact ggttcaactc 360
cttgtgcaaa aaccaggtga cccaagaact caacttggtg ctgggcaaag gtgcacttgg 420
atagtttgag gaagaactga ccatctagaa ggacctga 458

<210> 18800
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18800

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tctaggtttg aaaggtgaaa tttagaatga ggtgaatttg aggcaaactc tcacctcaca 120
ccagtccata acgtcaatct aaacttgccc aaactggaat tacacctaaa attccaccaa 180
atcaaaattt gactcttcaa cacccaattt tgccctagaa atggctcttg gttcactttg 240
gtcattttatt tttctctcta gtcagccta acctttctca catgttctaa atgacatttc 300
aagctagtat tgactcactc taacctccat ttaccacaga attccgactt agccttccaa 360
ctctcanagt ctactcttt ntccactcat aacatcacat tctca 405

<210> 18801
<211> 447
<212> DNA
<213> Glycine max

<400> 18801

ctatagaaac tcagcttgaa atgggaatgc actagcatcc tactctttct ccaaactcga 60
aggtggagga cacatgaacg aaaacacaat tcatggggct ccgaaaaagg ggttgagaat 120
ggagaattac actaagcaat cactacgcat agctccaaac tcgaagggtg aggacacatg 180
aaagataacg caattcatgg ggctccgaaa agattgagaa tggagaattg cactacgcaa 240
tcactacgca tagctccaaa cgcgagggtg gaggacacat gaatgaaaac gcaattcatg 300
gggctccgaa aagattgaga atggagaatt gcactaagca atcactacgc atagctccaa 360

actcaaaggt ggaggacaca tgaacataac gcaattcatg gcgcttcgga aagagtgaga 420

atggagagag gaactaatca atcacta 447

<210> 18802

<211> 387

<212> DNA

<213> Glycine max

<400> 18802

tgcttctagc catatggact taccttgaat taattccttt gatagccctt ttgagccttg 60

tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120

atataccttaa ggaatttttg agcttttgaa ttgttttggg aataagtgtg ggggggttttt 180

gtttcattgg acaacttggt ttgttggcta tgcttcatga tgtatttttg gccatacttg 240

atgtacattg tatattggtt aaatgttga catgctgaat gaaatgttgt ttctcaaagg 300

ccaagagta aaaaaaaaaa aaaaaaaaaa ttcaaaaaaa aataaaaaaa aaaagaaagg 360

cattaaagtt gagtgaataa gatctta 387

<210> 18803

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18803

ntgaggggtgc gcagcccacc atcttttcat agtatagtac cgataatgtg tctaccatta 60

cgattatcgt ctccctttcc atcattgggg gtaccaccgg ggccgccaga tccctccacc 120

ttttgggcgt gttctttgaa tgatccgtcc ccttttttgc acatgttctg tagttgcac 180

ctatccggaa ccatatcaaa attgtactga tactgcctaa caaaggcaac cattatgtcc 240

ttccaagaat ggactcggga aggttccaag ttagtgtacc aggtaacagc taccacagta 300

agactttctt ggaaggaatg tatcagcaat tctcatctt ttgcgtattc ccccatcttc 360

tgacaataca tctttagatg gttcttggga caagtagtcc cttgtactt gtcaaagtcc 420

cgcaccttga acttnggagg ggtgatgata ttggg 455

<210> 18804

<211> 409

<212> DNA
<213> Glycine max

<400> 18804

tttcttaadtg tctcctaaga taagaaaaca accaagaatt cattgcagga aaaaagcaca 60
aattattcaa gaaaaaaciaa tcttagaact ttaaattctg aatttgataa tggtatcaaa 120
ctttacctga atttttttta accaagcaaa gcataagaat atgttaatat ctgtcaacaa 180
agtcgggtaca agatgtacct tgatcaacca acataatggt gataaagaag cagccaaaga 240
attgttataa accccttacc caagccaata tattaatatc tcactttaat taccattatt 300
aatcatttta attaaattgc aagaataatt aaagttattt tatgttggtg aaaatataaa 360
ttaagtgcgt gatattctac gttttatgac aaatgagtat tggtgtatg 409

<210> 18805
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18805

ntatttgatt aaatcgattg cttatttcaa ttattattaa gttactaagt tcacttttta 60
ataatttcaa gagaaatttt cttgcacttg tcgcactctc taattaagaa aaataaagta 120
aagggtgttat gcacatatca tttgcaatgg cagatcaact ccaagtgtga acaaaccaaa 180
agagaaatgg ttcaagaaca ccatggacaa tttgtacaat ggacgaagca cacaaggaaa 240
atgagtgaca acaatttcac tccttttgtg attgagaaag aattgtgaaa ctaacgggta 300
aagagacaaa ataggatggt tcggctaatt ctttcattta gaggaccaga gcaatgacta 360
tgatcatata tacaaaatta catgttaata cataattatn tgctacctca tcctttcata 420
gatnnttaaa tcgacatatt ataagttntg aanatatac 459

<210> 18806
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18806

tgtttggtact tcctgtgttt tgggaacctc tccttctca ggtgtacca aaccaatca 60

cttgggtcaa gcacgacttt ctttctgctt ttgttggtt gccttgcata gctcgcattt 120
 ttcttttcaa tttgaacctt cacttgctca tgcaacttct tcatatactc agcttttagcc 180
 tgtgcatcct tatgcttaaa catagcaatg ttaggcatag gcaacaaatc aagaggagtc 240
 aaaggattaa atccatacac tatctcanat ggtgaacaat tagttgtgct atggacagcc 300
 cgattataag caaactcaac atgaggcana caggcttccc aagatttaag attnttcttt 360
 aaaacagtcc taagcagtgt gcctaaagtc ctatggacta cctcagttt 409

<210> 18807
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 18807
 tcattgccta acaagccaac ttacaacagc aagttcttat agactcagca taaggatgca 60
 cagggtcaaag ttgagtatgt gaaaacattg tatgaccaag tgaagggtgca aattgcaaag 120
 aagaatgaaa gttatactaa gcaagccaac aagaaaagga aggaagtggg acttgaacct 180
 ggtgatgac ctaggacattt gagggcaaat gttttccaag aaggagggaa tgatgagaat 240
 cctgaaattg gccaaataca agctaaaagc ccaagtggag aaggacgaag gctcaagtgg 300
 agaaggacaa agcccccgag tggagaagga tgaatgccta gagggcaaaga cattatcaag 360
 actattiaatt gttgctgatg gcccaaacta atttgaaggc tcaagttaaa taagttttta 420
 gttat 425

<210> 18808
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18808

agcttctctg gtgccattcc tgcgaaggca aacatttgga aagttagttt tagtgggcca 60
 ttactcttaa agcaaaaatg gcatgtaacc tcttcccatc aatacaaaca tcaatgtaaa 120
 tttagagcaa gcttatgcgc atatttcctt acgaacgttc acttgcaacta gacatcctat 180
 taactaagaa aaatgcaccc atatacaatc aaggcagctt tgttacctag attatttaca 240

cgtaacttcca aggtgtatatt gttacttaca tcacacacat ctcttgggt aaattcacat 300
 acatgcatac cccaagcatt ntgggggtacc aaaaattgca catgtgcaca tcttgggtatc 360
 tctaatacct atacatacac aaacttcattg atgaatcttg a 401

<210> 18809
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18809

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 aacaacttct cgtccctgca atacgcaccc attttgcgac aatacatttt gagatgattc 120
 ttaggacaag tcgtcccttt gtacctatcg aaatcaggta ccttgaattt tgggggggatg 180
 acgacgtccg gcactaagca aaggtcagtc atgtccacga acggataatc gccaaagcct 240
 tcaacagccc tcaatctctc ttcgatgaaa tcgagtttcc cattntcctc tgctgccagg 300
 ggtggccctc ctgcggacaa aaatattggc tgtgttgggt ggtttcgggg ttctcccgtg 360
 aggttgggct gaggtagcgc gttgggtgcc ggcccctcgg cggngaacag ggagtaggaa 420
 tcgatgtctc cctgggcatg ctctcgacga tctt 454

<210> 18810
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18810

tcttcatgca agcttgacaa attctttnta ttttttcttt caaggcactg cattcctgtg 60
 tcgagtgacc gtaattgcaa tgataccggt aatgttttga gtagtcgggt ttcaatgggg 120
 tgttagccct ttttggcatg gccaaaatgt ctacagctaa ggccatcatc atgatatgag 180
 atctattggc tgtaagggga gtgtagcaag cataacacgg ttctcggggg ggtcgatccc 240
 tcttctcggt gtcgcgagct ttgttggagt tgggcttate atgtctttct tggccgaaat 300
 ggcatccgcc cacacctggt gaggtcgact agtgacaaat tatgtgctta aacgggctgc 360
 caaggtgtcg aatgaatcca tggagttggg ggggagg 397

<210> 18811
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 18811

tgtggaaaca aaaaagtgc acacatttga ttagtttata ggcttctgaa gttggcttta 60
 gtcttgccgg tagcaactgc aagcgtggta catgtttttt cagctatgaa gtttgtgaag 120
 agtcagctat gtaacaaaat ggggatgcaa tggttaaatg atctgaaatt ctgatactgg 180
 ggacagatgt cgtacaggat gtcacgacat cgcgcttcag aacatgcaga ttatatgtgt 240
 gtccgtatga acagattaaa caagtaaata acacatgaga attgttaacc cagttcgggtg 300
 caacctcacc tacatctggg ggctaccaag ccagggagga aatccactaa aatagtgtta 360
 gttcaaggtc taacagccac tgtttacaac cttctcacct aaccactacc catgcgacct 420
 ctacctatga gccactctta gatatg 446

<210> 18812
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 18812

ttgcatgcaa gcttgaagat gcgtaaccca ctttttttca tagtaaaaca ccggtaatgt 60
 gtctactatt attgtgatca tctctttctc cgtcattgga ggtgccactt gagcttccag 120
 gtctccctac ctttgggcgt attctttgaa agattcatgc ccctttttgc acatgttctg 180
 tagttgcatc ctatccagag ccatatcaaa attgtactga cactgcctaa cgaaagcaac 240
 cattatgtcc ttccaagaat ggactcggga aggttccaag ttagtgtacc aggtaacagg 300
 taccctagta agactttcat ggaagaaatg tatcagtagt ttctcatctt ttgcgtatgc 360
 ccccatcttc cgacaatata tcttttagatg gttct 395

<210> 18813
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18813

tcaatataga aaagtaaaac ttaatttggg tttggcattg attagaaaaa tgcaaattctt 60
 tgaactagtg taatttggaa atcaaatggt gccttgtaga acttttagga aattttgtag 120
 atttttgcta gaaaattggg ataccaagtt agaaaacaga gtcaatgaac tttgatttta 180
 tgtaaaaagt ttgtgaaagg atgtgactct tcacatttaa atttaaattc caacgttcaa 240
 acacactggg aatcgattac caaatcattg taatcaatta caacattttg aaatcaattg 300
 gaacgttgta aattcagttg aaggcttttt gaaaaacatt ttgctactgg taatcgatta 360
 caacaatctg gtaatcgatt actagagagt aaaaactctt tggtaaaagg gttttgagaa 420
 naattcatgt gctactcagt tt 442

<210> 18814
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 18814
 agcttgttca atcactatag ccatgggtca atgattgatt ggtaaaattc tatttttctt 60
 ttttccccag tttttcaaaa agcaaaaaga gttgaacaga ccaatgaata agaattcata 120
 tattcagaaa attccctctc cttaagata aaagacgagg atgcactttt ggtttccggt 180
 tgggggcctc acttggtctt tttctctacc cttcaccac cattttctct tccatgccca 240
 aaatgcatgt cctctttctt tttttgtttt tccattttca tttcgtgaa accctttcta 300
 ccctaattct agagtacaat gccctgctct ctccgttcag ccattaccga ctctcagca 360
 cccattcttt cttcgtggaa caccttcac ccttactact cctagctcgg t 411

<210> 18815
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18815

ntggagtaaa aggcttacta aagaaggcaa taggggtgcc tttctgcgat aagactgcac 60
 ccatgtcgac accaaacacg tttgtttcca aggaaaaagg gataatgaag tccggcaaga 120
 gtaaagtagg ggctatagaa agcacatcct tcaatccagt gaaaacttgt tgcgccttag 180

atgaccactc aaaggggtac ttcataagta acctgggttaa ataagctgca atggaggcat 240
agccacgaat aaatcgggtga tagaaacccg agaggcccaa aaaactgtgc aaggccttgg 300
aggaatgagg tgtgggtcac tgctaaatgg cttggacctt agccgacact ggttcaactc 360
cttgtgcaaa aaccaggtga cccaagaact caacttgttg ctgggcaaag gtgcacttgg 420
atagtttgag gaagaactga ccatcta 447

<210> 18816
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18816

agcttttagct taagcccaaa aacactggtg cttaagcctg aggtttgcaa ctttcaatga 60
atttcaaaaa tcaatccatg gctctccaaa atggcactat aatttcaaaa acacatctta 120
taacatctaa agccagagat caacatttaa aacatcaaac acatcataaa acatgaattt 180
aagcttccat tacctctata gaaccaaaaa aagagctttg tgatgaagta gtagaaaatg 240
atgaactttg gatccaaggg aggatatttc ctcaactcca acagcatgtc catcttagca 300
acatcacccc anacccaaaa ataaccacaa acaaaatcca atccccaaaa accaagctnt 360
nttatgagtt cccctagatg ctntatga 388

<210> 18817
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18817

ntggtgctac acttggagag cgagctcttg cagtgttggt gtcacattcc ccatctgtgt 60
ctccaaagcg tcaactcggc caccatctt aggettcctt gacatctaca atcttcttca 120
ttgtgtgaga ttgatccgc aggtcggacc aattgatggg tcttaatgca caaaaataat 180
gataaaatgg atataatagt gtaatatgag taatgaaatt gcaatgggtat tgctgtgaga 240
tccacaatta caggaagaaa agagcagaaa aaaagaaaaa taacaaactg gtaatagcaa 300
ccaattccca agcacgcagt gctcccaaat caccagagg cgacccacc aaatccta 360

cacg

544

<210> 18820
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18820

agcttttatta ggattcttcc ctcttagtca tgtttctttc catctacaaa gacttgaatt 60
 tgagaattta cttaggaaat ctaatatcat tctcatcaat gacttataag tgatctcgtg 120
 tatatatata tatagtgggtg tgtgtataaa atatagtcac ctgtcactat tttcatgcc 180
 acaatatagt accaaataga taattaaatt acaaaaatta atgagggttaa taattatgta 240
 gatgatgtaa aaatttctta aggggtttcc tagactatca atgataggaa acaacaggat 300
 cttgaaacct atggttctca caaacaatca ataaacaaca atagataatg atgtgtacct 360
 ttctccatag gaagacttgt nacttctcca tangaacttc tctc 404

<210> 18821
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18821

actacgctaa gctcttaact gcacaagctc taatattgtg ttatccttgt ggaaccttca 60
 cttgatgaag aactgacaa aaacttatct tctccttctg ggacaaagtg tgacaagcct 120
 gnggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgctcgt atccccatgt 180
 cagctagatc ttgacggata ttcaagccat ccttcgtctt gccttgaatg ttaggagcgt 240
 tcccaatcac attatcacat acatttttct ccacatgcat aacatcaata caatgtctaa 300
 cgtccagatc agaccagtat gggagatcaa agaaaatgga cctcttcttc catatgcaag 360
 tcttactctt atccttcttt tgggtctttc caaatacaat attcaggtgt tgaacccgct 420
 ggtataacctg ttcaccagtc aacagtatcg gtgcaatatc gt 462

<210> 18822
 <211> 391
 <212> DNA

<213> Glycine max

<400> 18822

agcttcctac ctgtttgtgt tgcagtggct gcccccaaaa tccgctataa tggctagtgg 60
gagtttgact attctaaggt tttgacatag acatcaaata atttatagta aacataacctg 120
tataaaatta taaatgatat tcatgattaa tattgatatt ttaatgattg aaagtcattg 180
aagaacaaca cggcagaaaag atgaaacatg aaagacctgt tccatattgt ggaatgagta 240
taatagagaa cagaatatag agctttggag gtcagcaaga ttgccagata ctgacatggt 300
ctggctggaa atactgctgg aaaaaggggt ggtgtaatta gtccgtaccc agaagagtgt 360
tgcattgatga tgggaaaaca aggaataaac t 391

<210> 18823

<211> 447

<212> DNA

<213> Glycine max

<400> 18823

gtaatgtttc aagaatgtcc ttatgtatat tatatacatt gttatgctca tcaattacaa 60
cttgctcttg ttgcttcaac tagatgggta gttgatgtac gcgctttttt ttaaacttga 120
atatgattgt aaatgtttgt tgttcttctt gtaaacacaa tcatgagtta caagttgctt 180
atgtaactaa aatttctcat ttgattgcca atgatgagat tgatattgga aggggaacta 240
atcaaattga cacattacag agactgggag ataccagatg gagttctcat ttcaattcga 300
ttggtattct tttatgcatg tataatgcat ctacagcagt tcttgaagaa ttagctgcta 360
aatgatctac tgctactcaa tgaggtatgc tactgattgg ccaaaagcat attgtcattt 420
gatgtatttt actctatatg tatgaaa 447

<210> 18824

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18824

agtgagctga tcattttagt ccagtgatga gaagaggaaa ggttgcgtan tgaacttacc 60
ttaagttttg tcaaggaaga aagattagtc aaccactctg catccttaga ttgacatca 120

aaattgccac caagtccaag agtgtgcaac aaaggaagat tcccaacctg gaaagggagt 180
gctcccgaaa atgaattctc accaagatca agataacctca actgtgagag attttcaagt 240
tgatatggga gttccccatc tagatcatta tcacttagat caagatattg taaatgcgta 300
aggtttccaa gttgataagg gagttcccca tctagatcat tatcacttag atcaagatat 360
tgtaaattgtg taaggtttcc aagttgataa gggaattgtc catggagata aa 412

<210> 18825
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18825

gtgttgctac acttggagag cgagcactag cagtgtatat ttcacattcc ccaactgngc 60
ctacggagcg tttactaggt cacccatctt aagcttcctt gacatctaca atctgggtca 120
ttgcgtgaga gtgatccgc aggtcagacc aattggtggg tcttaatgca caaaaataat 180
gataaaatgg atataccttt gtaatatgac gcatgagatt gcaaggggat tgcggggaga 240
tacacaatta caggaagaat agagcagact aaatgatgaa taactgctgg aaatatctac 300
gattgccaaag cacgcagagc tgccatatga cccagaggcg accccaccag atgcaaagtg 360
aacttccttc taaatatt 378

<210> 18826
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18826

agtcttccca atgtcttcaa gcattaaatc aatacaatga gctgcacaag gagtccaata 60
aatgtttcct tttgtcctct aacaacttac ctgctaaaac atagttgctc ccattatcag 120
ttacaacttg aacaacgttc tcttcccca cttcctccac aatagcatca agcaactcaa 180
aaagcttttc acctgtcttt acaaaatcag agtcatcaac agacttcaaa aacattgtac 240
caacttgaga gttaataaaa aactaatgat gcatctttgt ttccaatcag tccatgcac 300
ggacataata gtacaacat acttgacca ttgtccttg tggcctttca tcaaattntc 360

agtgtattca acttccttct tcaggagtgg aactctgatg tcatgatagc 410

<210> 18827
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18827

tctaactntc taagttgtaa ttgcagttca gttatgttta tcacttgatt attgcctatt 60
ggtaatgact aatgaatggg aggcgccatg ttttctttgg gggcggtggg gagtgttcaa 120
acggcgccac ttataaagaa ggggctaag ggctatatat gcatcagtgc ctgcatctgc 180
tggatccaaa ttttagcata tcatttttgc tggcactttc tttctcgtac cttttatttt 240
tcttacaatg ccaattttcg aatccaaaat aactagccct cttctgctct ttgcacataa 300
taataatgat atagtattat taatagtaaa ccaaataag aagacctacc ttgggttcaa 360
aacggacgtt ttcaccaaca gcttactttt acctaccttc atatgaataa agaaatgagg 420
atggttntaa ctaaattctat gagaagtggg t 451

<210> 18828
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18828

ttcttccaaa gttttactca aattgaacct ttacatcaa ttgtcaagca ctcaatttaa 60
aaaaaatag aacgttttgc attagttgtg ttaataattg ataaaaaaaa tatcaatttc 120
gtcaaataat taatgaatat gagaatatga ctaaagagt ataatttttt catttcaaac 180
aattcaagga ccaaattaaa ctttcaatat gattaagcca ccacttatat agttaaatag 240
tataattatt gtaatttatt ttttgcattt aatacagtta aatctatatt aaagaatagt 300
tcatcgaaaa gtcttaaata gatatactat attgttgaca cgttacttan acatgggtaa 360
tttggacttt tcaccaatgc attccatctt ctcttttctt tntctt 406

<210> 18829
<211> 459

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18829

tcccacaatt ggatcatcct ccagactctg gtgttttggc taccctccaa acctctccat 60
 catgccagac aacagcatct atgacaggcc ctttatcatc atagctctaa aacataaaac 120
 agcatttcct tttcaatgta aggaattcaa gttgaaaaaa ttctcagtgg gagcaciaaac 180
 acaagtataa atgtctcttt tagtttgagt cattgagacg agtcagaggg agaaaaaaca 240
 agaaattcat tgtttatgtg tggccagggtg gaaaaaaaaa ttcaacatta tttcatacag 300
 agacaatcat tctatcaata tcctcattcc accacttatg agtgtcctat aatgatataa 360
 attcaaatac attgttcatt acctatttca aggacaggan aagacacaaa taccgaaga 420
 gcaacanagg aagatgacat gctcagcact cacctcaga 459

<210> 18830
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18830

tgtttgtcat cttactttca tgtttaaata accctaacac ttacaacata tcgcttgcta 60
 gctactacaa caaaaaacaa atttacaaaa gttttaagac aaaattagtc caatggctaa 120
 caatttctct ctattttttc ctttcattca aacttgtttt ctccatcttc atgggttgctt 180
 ccatctcatt catctttatc attagctcat tttttaagca atccaagaat aactctcttc 240
 tcatgaatat tcatttcaag atcttaccaa taataaaaaa gttacatcct cttctatccg 300
 atacatgtaa aacaacaaaa aatgaaccag ttacatcctt atccttagca naccattac 360
 aacaaaatcc anagaacaac caaaaaaaca caatgtagtg gtgcatacct 410

<210> 18831
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18831

cttaggtgga ttgactttt aaagctgaca taattatatt tggtatnnnn atnnnannnn 60
 gtcaaataca agaataaaga gcaaatttta caaaggggtg cttttaaaat tgtgacatga 120
 tgattaattg tcactcttta attattttac caattttaag aataaagaga aaaatgttta 180
 caaatgggat ttactctcgt gcatcccggt ctcattgcata ttgtattctc ttgattcatt 240
 gttcctatatt tatgttttaa ttgaattagt ctttctttat gaataattaa atcagtattt 300
 agtttagcaat tccaatatat aatagactaa attatactct attagtcgtt ttttcaaatt 360
 gcatcccata cttttcatgt tttcaccac aaaaaccctt tatttgtag ctctcattac 420
 attcatgtat catttcagtg tttaatca 448

<210> 18832
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 18832
 agcttttgaa acagttttga gatactgctt gcctcataag ccctgttagg ctttcagcca 60
 ctaaatacaa gagaaaagg gcaaaggat ctcttctcgt cagccctctt tgaggtttaa 120
 actctgaagt agggcttcca ttaacaagaa tagagatgga agctgaagag aagcaggcct 180
 ttatccatct aatccatctc tcattgaaacc ccattctctt catcatataa atgagaaatt 240
 gccacgaaac agaatacata gccttctcaa agtctacctt atagaccata caagacttct 300
 tggatcttcg agcctctca atcacctcat tagccacca aactccatga agcaaagtgc 360
 tgccttttat atatgttgc tgcctttcat ctataagac 399

<210> 18833
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18833

tagacgaaga acaagagagg ttagatgtaa agaatagat acgcgagcaa aatagggttc 60
 gcatctgata taatttaaaa tgtaagtcca acatcagttt tcaataaata aataaaaatc 120
 gatgttaaca aatgatgtt aacattaaca tcggttttct gcaagaaacc gatgttaact 180
 tatcacacat taacatcaat tttctaaaaa cccgatgtta acgaacttac gttaacatcg 240

gttcttccaa aatcgatgtt aactaataaa tgttgacatc ggtttttcaa gaaccgatgt 300
 taatgaaaag tcacttcatt aacatcgaat tttcaaaaaa ccgatgttaa tgaatacaca 360
 ttatttgcaa ttatgtcacc gcatttatct taacatcggg tntgtcaaaa atcgatatta 420
 atttgccgat gttaaatctg ctntgtgtag tagtgt 456

<210> 18834
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18834

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 ttttggaat tcagaatcac ttaaaattag tgagaaaaat tggttccgtg aagaaaatcc 120
 aagccgaggc gcttncgtaa cgtttccgtg ggtgatttcg tgaaggtttt cgaccgttcc 180
 tcgacgttct tcattcgttc ttccgcgttc ttccggtcttc aaccggtaag ttccctagat 240
 tgaacttttc aattcattct atgcaccctt agtggctctc atttgttttt acgtgctttc 300
 atttacattt catttacttt tcgtaccccc ttttgacatg ctttaagtcac tttatttaag 360
 tcatttctct gctaactctaa aaataaaata aa 392

<210> 18835
 <211> 450
 <212> DNA
 <213> Glycine max
 <400> 18835

tctttgagaa aaatttcttg agaagctaga gtttagttac acacacacct ctcataacta 60
 agctcacctc cttgagaagc ttccctaaga ggattcctaa agaagctaga gcttagctac 120
 acatacctct ctaatagcaa agctcacctc cttgagatga gaagctagag cttagctaca 180
 cacccttat aatagctaag ctcccccca tgacaaaata catgaaaata caaaaaaat 240
 ccctactaca aagactactc aaaatgcctc gaaatacaag gctaaaaccc tatattacta 300
 gaatggccaa aatacaagac ccaaacgaaa ggaaaaacct attctaatat ttacaaagat 360
 aagcgggctc atacttagcc catgggctca aaatctaccc taaggctcat gagaacccta 420

gggccttccc ttggatctct ggtccaatct

450

<210> 18836
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18836

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atgattgggc cctttcctct ctccggagct taagctcatt gttactgccc cacagagccc 120
ctcggaattt gttctggcca tgttcttccc tacgggccct tttggtctct tgttccaagg 180
ccttgggtggg ggctatattt acgtctctca gtttggcatt ctcttttcgg atccttatag 240
ctgttgattt gaacttttct ttggctgttt gggctttctt gagttcttcc ctaatggcct 300
gaacctcttc gcctcctcc gaagctntaa ctccacccc cttagt 346

<210> 18837
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18837

tgaccttggg ttagacatga ttgatacatg atttgtttct tgtaggattt gatttgggca 60
agattggatg aggggaagtg tggttttcga aatctgcgtt ttgtgcagat ttttgctgtg 120
aaattgtgca gcaggatttt gcacaagtgc agaaaaatac taggcatttg ctggttgtgg 180
aaagagcagt gcagaatgag ttctggatgt ttgctagtag atcccaacgg tcaaaatgta 240
ggcttatgca ctatagactt ccagtaaaat tttggagtcg atccaacggt taacgaattg 300
gatcgaagga attgttactg gggctctttaa gtgagaaaag ctgtgattnt ggttgatgtg 360
ttgagcagag ttttctgcct ttgctctgtt ntgcttggct gtgatagctt gtgctgtttg 420
aatgttgttt tgctttgatg ttggggaag 449

<210> 18838
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18838

agcttggtga gtgttttgtg aatccttggt tgggaaaagt taacaaaacc aagtacagtg 60
atgcttacaa aaccacaaat ggtacattgt tgttgtaac aaaactgtta gagattggta 120
gtatactaag agagttgcca ccttactaca gaaagcaagg catccataaa ctcaccatat 180
ttgcaaaaaa acaaggcaga tataacattg caattaaaaa ggctgatata acattgtttg 240
atattgtgca gactttaatt acaacaactg gtaaaaactt aatgagtgca ttacaaggcc 300
tctgaattaa acattcagat agaaccangt tcctaaatta aattagccta cacaaaatgg 360
aaaatagagc agctataaca tagttgtgcc caatct 396

<210> 18839
<211> 395
<212> DNA
<213> Glycine max

<400> 18839
tcaagtgtat ccttattatg ccattgagaa actgaattac ttttatgaat gttccaagct 60
aaggttttat tggagatatt ccttattgct tagggttgca tatcatatcc caaaaaataa 120
taaatttatg attaaataat ataaacctat taaagtacca agaaatagac ataatttta 180
tatatcatct ctatatatta taatatcttt ccattttttt acaactatct ttcaatattt 240
ttaataactca ttgatataat gagaaatggt ttaaaaagtg aaatattatt atatttgggt 300
taaaatatct ttattttaag catattacaa tgggtgtgtg gaaatggatc acaggacaaa 360
tcaatattac aaaagaaatg gtcattggga tatgc 395

<210> 18840
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18840

agctttgaag gcatctacct cttgaagagg cagaggtaag ggcataggga taagtggtag 60
aggttagagga cgaggagatc aaacactatt agaaaatata ctttcaacat cggttatttg 120
gggccttcta catcggttgt aaaaccgatg ttgaaagcat cgatgttgaa tgtattgttg 180

ttaacatcgg ttttaaaaac tgatgttaac ataaaaatat taacatcagt tttataaata 240
 accgatgtta taaagaaaga agtacaacaa aataagtgtg tgcgtgaggg acgttggcat 300
 cagttttctg taaaaaccga tgtgaatatg ttatattaac atcagttntt agaggaaacc 360
 gatgtgaacg ttcatcattc atgcacctat tntgctatag t 401

<210> 18841
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 18841

taataactcaa gctttgcaga agatactgag aaatttaaca agcattatgt ggttatgttt 60
 ttcattatta tttgtaatgt gagtttttagg gggaatgtat cttaggtaaa atgtgtaata 120
 gcatattttg atattgtaat tgttggtttg ctaaagaatt tgtagtaaga agtaattcgt 180
 tgctactgtc aattacccat ttcaattaaa tataatttgt tggtgaaatt tgctactgaa 240
 atttgtagtt tattaatat aatttggtgt tgtataactt tttgaagta ttgaagtagc 300
 actaaactag gtggctctac tccaactcca aatccaacac agtgtataat ttataaaaaga 360
 aagagaagaa acatgacatt atatcaattt cacataatgt ttgacatccc aaagtgtggt 420
 agttaata 428

<210> 18842
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 18842

agcttttatg gagttccatg cttctcatta gaaggaagga actcccgagc agatgacttt 60
 actgctgcaa tatttccatc agatgaaaaa cgtgagctgc tattcaagat aggttgcata 120
 ttaccagcaa ctaaggtaga tagtagtacc ccactctgaa ctagcctact ggcataatcg 180
 atggctggag atacctcatt cacatcctgt acaagaatgg gttatgcacc catgctccct 240
 acaacatttg tagcacccat ggtatatattt gtattttgaa aaccatcacc atctgtatag 300
 cttgaagctg aaattgcaca aacatcatatc ttttatggga atgaaaatga ttcacccggc 360
 atagaagctc tttgtgagta ctttgaacta 390

<210> 18843
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 18843

tgtccctcat tacagcacct gcacctatgt tgggtgaagt ctccctgata gcaaagtcta 60
 gtgcctctgt cggtttatgc attttctct tagacattat actcatogat taacctgcac 120
 caatgtaagg aaaacacttc aaataaagaa agctaagata aatatttaca aagactaaac 180
 catacaagga aatgcacaat tatttacctg ttgtgtttaa agaagcattc gattcagaac 240
 aagagtgtga ctattgcata tatattctaa atttgctcaa gagaaacatt ccatccaagt 300
 taaaggaaaa agttgagcgt gttgtgcac atgtatgtca gtagaaatca aatgagactg 360
 ttatgtgttt aaatgatctg gtttataaat aaaagtttct ataagagtga atcatgtt 418

<210> 18844
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 18844

agcttgtgta ctatTTTTTT taatcccttt acatgaactg aactatatgc acttcacgaa 60
 atatacctgt tgaaatttta cgaacaatgt cttataataa ctggatttta tcaaactata 120
 gtaaaagtat tgaaacaata ataaacaaat gattagttct gatctgctgt caatgaaact 180
 ttatcagaaa cataacaaat aaagtctatt gtattgatat ttaaaccaat aaaaatatat 240
 taaatgttag aaaataaata aatcatataa atttaaaaat aaataactaa tataaacaaa 300
 aaaaattttt tattaaaata tattcattaa aaaatataca aaggataatt gaccaatatg 360
 tccttagtcc aagtgaata gcataagatt tttgtaagtt taat 404

<210> 18845
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 18845

tattttgttc tccccattga tagcttcaca tgcaaaaccc tttctactac ttcactcttg 60

tccttgggat cagaccctag caagtccacc atcaaatttg gggaaatgcc ttttgagtac 120
 ttgaaagggt ccaatggaag ggtgttgata aaggatcatgc ccgagttcat cacaaggcta 180
 atcaatagaa gtaaaagacc ttgttgcccc agcagcaacg acaacaacaa cttgctatgc 240
 agcactcctg acttgagaaa acactaccaa atgctagtga aatccaagga ccaatttttg 300
 tcacctaagc ttgaaaccat ttcggaaaac aatgttaggt tttcacctg tagatttata 360
 tacgtttaga aaggaattaa gataaagaga tggcagaggt tgtatctact agatagt 417

<210> 18846
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 18846
 agcttgtgaa atatctctg attccaatga ggagccaaat gttctaattt cagtgggtgc 60
 aaaaaaacat aactacaaat gtctaattta ctcatgtaaa aaaaacataa cataactacg 120
 aatgtctgaa ttcaacactc ttgatgaagt ttgatataac ttttggcata acattgccaa 180
 aattgtatcg tttttttagt agatgaaaac agtgtattgt tgcacacaat ggagaagggtg 240
 tgttatgagt acaaattggg gacaagtctt gacggagttt ttgaaggata acttaaattt 300
 atctaataa gatgagggtc aaaataggat ttaaaggaca ataaagatat aacaaatata 360
 agattcttga taggatttac agagcaataa tg 392

<210> 18847
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 18847
 agcttgtgac tcttggcaat ttttttaaaa ctagtcactt aaaaagttgt gacttttgaa 60
 aaaatcttta gaaataagtc acttgaagaa ttgtgacttt tggaaatgta ttttttgaaa 120
 tcagtcactg gtaatcgatt acacatcaac aaatatgact cttcattttg aattttgaaa 180
 attaaaacgt ttagaagctc tggtaatcga ttacaaatgt tgtgtaatcg attacactag 240
 tttaaaatga tttaaaattg ttaaacacaa gttgtaactc ttgaaatttg aaatcttaac 300
 gttttaaaac actggtaatc gattactatc ttctgataat cgattaccag agagtaaaac 360

tcttttgtaa tgatcttgtg aaaacttctt g

391

<210> 18848

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18848

tcgcaatgct ntcactgatt gcggttagagg cctctcatga atagcctgta acttttctgg 60

gactgggttca actccattgc cggagacgag atgtcccagg tactccagtt gggactgggc 120

aaaagcgcac ttgggtcgtt tcaaggagaa cttccctgaa agcaagagct tgaacgctgt 180

ttcgaggtga cccacatggt ccgccatggt ttactatag accaacacacat catcgaagaa 240

gacgatgatg aatctgcgta agcagggctg aaagagctga ttcatagtag cttgaaaggt 300

tgatagagca ttacacaaac caaagggcac tactcagaac tcgtaatgcc cttgatgggt 360

tctgaattcc gttttgtgaa tatcatcatc tttcat 396

<210> 18849

<211> 392

<212> DNA

<213> Glycine max

<400> 18849

agcttgtgac tcttggcaat ttttttaaaa ctagtcactt aaaaagttgt gacttttgaa 60

aaaatcttta gaaataagtc acttgaagaa ttgtgacttt tggaaatgta ttttttgaaa 120

tcagtcactg gtaatcgatt acacatcaac aaatatgact cttcattttg aattttgaaa 180

attaaaacgt ttagaagctc tggtaatcga ttacaaatgt tgtgtaatcg attacactag 240

tttaaaatga tttaaaattg ttaaacacaa gttgtaactc ttgaaatttg aaatcttaac 300

gttttaaaac actggtaatc gattactatc ttctgataat cgattaccag agagtaaaac 360

tcttttgtaa tgattttgtg aaaacttctt gt 392

<210> 18850

<211> 390

<212> DNA

<213> Glycine max

<400> 18850

tcgcaatgct ttcactgatt gcggtagagg ccactcatgt atagcctgta acttttctgg 60
gactggttca actccattgc cggagacgag atgtcccagg tactccagtt gggactgggc 120
aaaagcgcac ttgggtcgtt tcaaggagaa cttccctgaa agcaagagct tgaacgctgt 180
ttcgagggtga cccacatggt ccgccatggt ttactatag accaacacacat catcgaagaa 240
gacgatgatg aatctgcgta agcagggtg aaagagctga ttcatagtag cttgaaaggt 300
tgatagagca ttacacaaac catagggcac tactcagaac tcgtaatgcc cttgatgggt 360
tctgaattcc gtttgtgaat atcatcatct 390

<210> 18851
<211> 379
<212> DNA
<213> Glycine max

<400> 18851
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tttatttgtt aatgattaat ggtgatgggt atttatatat ccatttggaa aatgactaat 120
agagtctttg ggtagagtt caactgaaca taacctactt tttttaaaaa aaataaaatc 180
tactagtgtt attacttctc tattttgtgc attgagggtg gcaaacagac attttgtgct 240
tgcgagtgtg tttgttttac acaaatcatg cgttccaaag cacattgaac aagcgatttt 300
tgtgagagat ctttgggggt gaacatgatt taatgacagc ctgaagctat gtttgttttg 360
gcgtttacca cattcaacg 379

<210> 18852
<211> 412
<212> DNA
<213> Glycine max

<400> 18852
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tgatgtcgtt cagtatctca aaaaagccta cgatgatttg aaagaaccct tgacctgttt 120
tctcaaactc tcaaagttg attggcattt ctatgaccta attctcttct gggcagacac 180
tttggattct aaaattggta taaagagttc cttttataac atctgtactt caccatgtat 240
gggcttcacg ggacccccctt cagtttggtta gaccttgata cctcaataat cttaagaggg 300

ataggcttag aatgcagaaa aagcaacaac aatcaattta acaatgttct ttaaacaatgc 360

aagacacaat tgattgcaac aaaataaata agataagggga agagagaatg ca 412

<210> 18853

<211> 146

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18853

atttcacacc gcatatgggtg cactctcagt acaatctgct ctgatgccgc atagttaagc 60

cagccccgac acccgccaac acccgctgac gcgaaccctt tgcggncgna tngaataata 120

cttctataaa atgatgctat acgacg 146

<210> 18854

<211> 342

<212> DNA

<213> Glycine max

<400> 18854

tagcttggtta acccatggaa gctcctaata tctccacac tttttggggt gggccattct 60

tatatggcct tgattctctc aggggtccact tggaccccat ttctaccaac taaaacatt 120

aataaaacta tattatctac acaaaaagta cacttctcta tattggcata gagagtgttt 180

atcctaata ctgaaagaac ttgccttaca tgccttaagt gatatatgct cttactatac 240

actaaaatat catcaaaata aacaactaca aatctaccta taaaatgcct taatacatga 300

tgcataagcc tcataaatgc gcttggttga ttattgaacc ca 342

<210> 18855

<211> 421

<212> DNA

<213> Glycine max

<400> 18855

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cctactagct caaatacaac acatatacac acagtgtaaa atggaacaaa gacccacgt 120

cctatagcag gatattgggtc tagacaatct atcccaaaca cgacttagcc cccagtttag 180

agttgcaata ataagacatt aacataagct gatagacgaa gaagcttaat tttaaacgaa 240
 aaaacacaat ggtagaagtg cgaatagaca ccctaaaagc aggcggcaca aggatgaaca 300
 tgaacacaaa ccagtggcct acaagaccca cgacatacta gcttatgcac aaataaggat 360
 gattgagtga ctcaatacat ccctacagat gagcctgaac atgaacaaaa tgtccattgt 420
 t 421

<210> 18856
 <211> 478
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18856

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 gggatcctct aaggccaacc tgctggcagg tacccttttt gcggaagaag gaaggaggcg 120
 ccggaactca tgactttcct tggccaccag gggaggagga tcaatgggtct ggatgggtgct 180
 cttataaaaa aaccccatgg aatcacctgc tgccgtggat tttaagcctg atcggtattc 240
 cgtccccctc ggggtggcat atgctgttat tgcttgaacc tttgcctagt aatgggttggtg 300
 ggacccacat ttgatcggcc ttgcagatgt tttaacgata ccttttgggg tcttacccaa 360
 actacacact ttgcatttgg ctgagttatg gcgcgatata taacatactg gatggcatcc 420
 ggttgtgaat cgcatactcg gactctttct gggggaacta caggacctga atacactg 478

<210> 18857
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18857

ggacacttag aatctcagct tctaaatagg anaaaacaac atttaagata tttatagctt 60
 gatataacat ttattctctg caagcgaaaa aagtccttct taataattaa aataaacctt 120
 tttcggaata atgatacgta ctcttctaaa tgtttttttg agaagacact gaataattaa 180
 gcattaagta cttattttat agatattcgg ctcaattggt attgaaagca aataaagtga 240
 aatttattgg agtagtacat aaaggggaag gtggggctgt acgtgaagcg gattgcccac 300

gggccatggt gactatcact atcaaagctg ggttgcgcca cctccgcatg attcatatat 360
gaaaacgaaa tgcataatc ttctcttggt ttcaatgaaa ta 402

<210> 18858
<211> 400
<212> DNA
<213> Glycine max

<400> 18858

agcttttttaa aaggacaagc accattgcta attccgctg acatggcatg cagtgggggtt 60
tcttataatt gagttgtggt ctcaaatcaa aacattacct atgatcattt aaactcaaga 120
cagaacaaga agactacatg catggaagat aactttactc gcttgatgga aaactttacc 180
tatgatccta tggaaatttc ttgatgtcta gggattgggt gaggcattgca tgagccactg 240
caattgaacg aaacactgaa attatttgtc gttccagcct atacaataat cttatagggtg 300
aatccttaag tttctatata tcattgacac ctttcctggt actggttgat tgtctttcta 360
ttttaccact tttaatcaag acaacaaaaa taaactagac 400

<210> 18859
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18859

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tgccaattag aagcaagaaa gtgaaacca gataagaaat tggagaagaa actatgccat 120
tacatcttgt tgcaaagcca gttttctgtc tttgcttgaa gtttttccac ccttaacagc 180
attatttgct cccctcgcg agcttccccg catctctgcc ttttcattca aggctttaga 240
ggttagaatc aaactatgca attaaaagca cagtntgaaa gtacgcgtat gtcttgtgcc 300
agattcgcaa gtaaaaatgg agaaaaata ttgaaagctt gagattacag aacccaaccc 360
aatcatgaat tatgaaaata aagggtatct tttcttttcc tcaattcatt cccttattat 420
gatacggtac ttaat 435

<210> 18860
<211> 400

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18860

 agcttattgc cacatcactg cactcatttt gaatatgtgc tgaaattaaa gcagtccaca 60
 tcacagtgtc ttttaaggta gaaaactccg acataaaaga attcgctacc acataaaaga 120
 cccctcttca ctatagcaca atggatcagc attcctaaaa ttaccttggc agaacccttg 180
 caaacatcta tgaggcttgc aaatgtaatc tcagatgggt tcagtcccaa tatctgcatc 240
 tcataaagaa gattaataga ttcttttgtg ttttttagag catatcctgc aatcagagca 300
 ttcacagaga ccacactctg ctccggcatg ctagaataaa ttntatgtgt atcttcgatg 360
 tccccgcact ttgaatacat gtcaataaga gaacttccag 400

<210> 18861
 <211> 406
 <212> DNA
 <213> Glycine max

 <400> 18861

 agcttatect gtgttttcta cccgttattc tgtgggtaaa cattataatg atttctttct 60
 aaggcttcgt taacaatggt gttcgactaa gttttccttt cacttgatga ttttaatttt 120
 atcagtgcag tgaagtatat ggggaatgtt ttttaacagaa ttacccccca actcacagtg 180
 atatatttat ggttatcaac caagtgtgt aaatgactgt tgccattggg aagggatgtc 240
 taagctgctt ctaacttttc cagattagcc tttgtgttc tataaatgta atgtcatatt 300
 actcatgtct gaatgctatg tactgtgttc atccaacggg ccattccgta tactgcagcc 360
 gttcctatct ctattactta acgaagatta gatttccagg atcact 406

<210> 18862
 <211> 393
 <212> DNA
 <213> Glycine max

 <400> 18862

 agcttatctt cgatctcaaa aaaacaacac atttctattt tgtgaggatg aaaaacatac 60
 tgaaaatttt gcaaggataa attccgaaca ttttgatatt tataagaaca aaaaatatat 120

tttagccttg tttttattgt taaaaaaaaa aaagagaaat gctactaaca ttttctttaa 180
 cacactcctt catacacact ttctcttatg tgtaaataatg tatttagttg aagaacaagt 240
 tccacaaaat cttgaaccta ccaagtgtga tgggtgggat tggatgagt gggatcattt 300
 gccacacctt ttgggtgggc ctcttgagaa aatgggtcaaa ggagctttcg acccatttcc 360
 aatttgattc tggtaattgg tatgaatttt ttt 393

<210> 18863
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18863

ntaacaaccg aatattcttt gtcctaccaa gccactgttg tttctattct aatcagaaga 60
 tatgttggtt gatttgctaa ctgattaaat cttaatcatc ttacaaacaa atgtgaaatc 120
 taagcattta gttttttgtc ttagagtatt caagatgttt tgagagcttt tcaaacttta 180
 taagaatata caaagagttt tctacataaa gaatttgaat gatagcgtgt aggttcgtta 240
 ctcatcttct caaagcatct agtatattata gggtttcatt ttcaagtgtt tgttgtttct 300
 aaacgattat aattttcctt tgagcttgca tctgaagctt gtgggttatta gatcatttaa 360
 tgcttgcatt aaacgcatat cctgcttcat gcaggaaaac cactatgatt ggc 413

<210> 18864
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 18864

agctcttctc catctttaat gtttctaagg ctgaaataga gaaacaatgt gaataacaaa 60
 ttaagatcgt gaaatcacat aaaggtaaag agtatgttga ttcacgaaag cggtcaggca 120
 tttgggccat gcgcaagatg tccttacata catgggactg attgccgcac actatgcttg 180
 gtccttagga tcacattgat gtgacggaca gaatatatcc aactttaatg tacatgggtga 240
 aatgtgcagg gagtaatgcc actgttcttc tatacttgtg gattaatgct cctatgacag 300
 ctatgtatgc attaagaaga tttctcagca atgttatctc acatacacct tgtgagttat 360
 tc 362

<210> 18865
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 18865

actcaagcta cttgaggaga tgtatccaca aggggaaaag gtggacactg ttttgtcttt 60
 gcatatatca atatcagtat gcaatgggtc tcccacttat tgatcctgta tgaatgcagg 120
 ctgagacaac atgggcacta acagtgctag ggtatatggc aaaattcgat atgggaatat 180
 tagggtaagc aacgacatga gaatcagagt tgcttggaaat gctggatgct gtatgaccct 240
 ctatgcatag ttgtacggat cttatttctt actaccatgg gtcatatatt gctgatgggc 300
 gcatttggtg aactgagctg t 321

<210> 18866
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 18866

tcaagctttc atcaagtggc atcagagcac aagagcttta agtaggtgct ccttaaacct 60
 ccattaattt tttgctttac cttctcttcc attgttggtt cttcattttt ctccatgtat 120
 ctctcacaat gtcttgtgat aaatgttggt aacatgattc tttagagttt ccaccgatta 180
 aatttgctat agaagctaga tttgattttc tatggttcaa atttcttggt cttgttcttg 240
 aaccatgaat tgagttgagt ttaggttcct ttgagttctg tcttggttatt atttgtggct 300
 aaaacctata ccataaaatt cttacaaaaa cattaaagta gaataaaacc tcataaatct 360
 acagtgactt gttcaccta 379

<210> 18867
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 18867

tcttcttaag gaatcttctc aaggagggtga gcttagttat gaaaaggggtg tgtgtagcta 60
 aactctagct tctcaaggaa gttttctcaa agaagcttct caaagaagtt ttctcaagaa 120

agcttctcaa ggaagctacc tattctataa atagaagcat gtgtaacact acgtgtaact 180
 ttgatgaatg aaagtcttat gagatacact tcaaagttcc acttctttcc ctcttttatt 240
 cccttcaatt tgtgctcccc cttctctttt ttcttttctt ccattaaaag catcctcttc 300
 aagcttctta tccaaggcaa ttcttggtgg tgaagctcat tc 342

<210> 18868
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 18868

agctttttcc tatggctgag gccaaatgca gtgttaactt ggtttgaatt tgaggacctt 60
 atgagggcca cgcacaattt ttcacctcag aacttcattg gaagaggtgg gtttgggttg 120
 gtttacaagg gcattctacc tgatggctca atgggtgctg tgaaaaggct tgaagaatca 180
 gattctcaag gtgatgcttt gttctgcagt gaggtggaga ttgtagcaa cttgaagcac 240
 cgaaatctgg taccgctaaa aggggtgttg gtggttgatg aggggaatga taatcacaat 300
 tctgagtacg gaagaaggta tctagttcat gaatatatgc caaatggtag cttgaagac 360
 catctctttc caaccaaact agacaatc 388

<210> 18869
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 18869

tggttaagctc tcaaattggt acaaataaaa tataagcatt ctattatttt tcaactcgta 60
 gcttgacggt tcagtgattt tacctgtatt tcattaaatt ttttaaatta ttttataagc 120
 aatttcctaaa ataaataaaa tagaagcaaa cttatttcat gctggaactg tttgataatt 180
 cagatgaaac tgaacacttt aacttcagtt aagaaaccac tgcccatgct atatctgtat 240
 tggaacatat tctacaaatt taactaaata catatatttt taatatgctg catgtaaact 300
 tacatgtctg acttccgacc caactgtttc tgtggtaaaa taatttgac cgaatgggaa 360
 tcatcagtgc tggggattgg gtgactcatt atggctattg ctcttgcaac ccta 414

<210> 18870
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 18870

tgctatatat atgatgtact ttctaacatg aaaatttctg gactgattca tactgaaatg 60
 gatcagcttc ctttctttct gacggatctt gtacaaataa agacttgaag ggtgaaaata 120
 tacctttctt ttacttcgct cagactatta tattgaatat tttttcctac cctcgttttt 180
 acttgggggtg ttctcatgt cttgaaaggt gggtagata actagacaca acaacaaagc 240
 ttcatcccat cagacgaggt cgattacatg aatcacacga caccattttg acacggctaa 300
 aacccatagt ctcatatat cgaaataaaa gtagacatct gtttttctct tctgggtactg 360
 cactat 366

<210> 18871
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18871

tgtgttctgt catgtccttt tccgggggtc ctttctgtctg ttgtcattt catcctctat 60
 tctaacttca aagttttaac tttgaatgaa atgtatagtt aaaaatgacc tagcctagat 120
 tttaaatttt gaatcaccaa ggctttagta atggacaatg aaatggccat ttatgcattt 180
 acttttttagg atcaacatat ttgacatgaa tactctacac taagtgtgtg ttggtatagt 240
 ggtcttagca gggaaattgt atttcaaaag gatggctgtg tcatcaaaac tcttaaattt 300
 gggcagtttt cctcttaaata aacaagttaa caaagacact tcagggactc taccctgtaa 360
 gccacctacg tcatgtcctg ttttatttat aaaatgcact aaacatggat tat 413

<210> 18872
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 18872

tcaagctttt atggatttgc acgcttcaca tttgagtatc tctgcggtcg tccggtacat 60
 tatttctttt agtttgggta ttgtctaaat tatttttcca gccaatataa ttattaaacc 120

ttattgtttg gtttactttt attttttact taaatggcaa gttgatattg tgtgtttcat 180
 taaactcttc acggctcaaa tgggtatgaa caactttcaa gagttagttc atacttcata 240
 gatatgatgg tacatttgat gattaaactc tttgcattct gtggtttatt ctttttttgg 300
 cgaccttgta gcatctatta ttgccttgag gtagagggaa tgaaagtctt ggagtacaga 360
 tctagaataa tgtaagactt attatgctaa taatgt 396

<210> 18873
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18873

tatccttatg gcttgccctcc gaacttcacc cttcgtgcct tcccggatta tttaagccaa 60
 gccctactt togaggggca actcctacct tatgacgact atcccgggca agacgatgag 120
 gaaggagata cccatgttgg cccctgctc cacctcaaag attcgtcccc ccatgaacta 180
 cccaaccga acatagtccg ccatatcccg gcttccccca caccgtgaa ggaatctgtt 240
 cccttcgcag aagataaggg aaagattgag gcgcttgaag aaagggttaag agcagtcgac 300
 ggccttgga attacccatt ctcgatttg gcggatttat gtctcgtacc caacatcgtc 360
 atcccccca agttcaaagt accagactct gataagtaca aagggacgac atg 413

<210> 18874
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 18874

ctctagcttt tgaaagccct cctgattctg caatacattt ctgactctat ggcatgacat 60
 gcagtgcata gattggacct cctgatagtc gttatcaaag aatagcttac acacttgtgc 120
 tcgagtgaag cagctgctgt gagactgtgg tttgagctac tttccttgat acctgtctta 180
 tgattaactt catctaaactg tatagatcac attaagctct actctttgtc tagctgcata 240
 ttctgggaaa acaagtgata cgtacacatt gcttcatctt tcacatcatg caatcaatca 300
 attataatgc atacaccttt cagcagtaaa cactgcatga ttaccactt gatgacaagg 360
 gagttgttct ctgatgcttg aggacaagca taacta 396

<210> 18875
 <211> 309
 <212> DNA
 <213> Glycine max

<400> 18875

taactgtgca tgcggtggat caagcacgat ctccggcaat gtcgactgat gatcgtgtgg 60
 ctccagtact tcatcactat cttccataat gagcacgaac aaggaggaag agcacttgtg 120
 gccgcgtgaa tacttttaat cacattggat gcataagccg ttctctgtgc acatagctag 180
 ttctccagc gtgaggcggt taaaaggaac tgtggaagag ttggtacgcg ccggtgtctg 240
 taataatgga ggagtagtta aagatgtata tgttgagggt tgtcgagagc ttgaggatgc 300
 tctgtgggt 309

<210> 18876
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 18876

ttgctttaat atagctgctg ttacaaacac gctaaaaatc atttcataca attctctcat 60
 tggaacagca aaagctatat agacaagaga tgggaagtgc tttggatagc tctatccatg 120
 actatttgga agcatagaaa ttcagtgggt ttcaataacc agattttcaa ccccgaaaaa 180
 gtcattggatg aagctttatt ccacacttgg tcatgggttaa aatgtatgga caaagatttc 240
 catattcatt tcaaccaatg gtctactagc ttgaaggagg agctgtctta aggggttctt 300
 tcttttctgg ttccagctat tgcgtttatg tatcttatag ttgggatcgg caattatctg 360
 ccttgcatct ttt 373

<210> 18877
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 18877

tctttgtttt tttactggat attttcttct tgtacagtca tgtaattcga gtatttatgt 60
 catgtaattt caggaatctt cctcacttgc atagttttgc aaaacaaaaa ccttattttt 120

aacaatgttt ctttaatttta gagaatatgt ttagatacgt acgtagaaaa aggttttaaaa 180
 aaatatgaaa ttattttacat ataaaacact aaacagggag gagttattat aaattttaaaa 240
 tagatggaac aaagtatatt atcatattat atatatttga aatgatgaga aaaaagatga 300
 aaggcagatg agtaagaaga agatagccag aagcataggc taagattgtc caacacatgt 360
 ggatagcagg aaaaacgagt gtattgatca acaacttcc 399

<210> 18878
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 18878

aactatataa gtattaaaaa agcacttaca agtacaacac aatggtttac ctgtgatcga 60
 agaacttctt tgtatgtacc aattttctcgt aaggctatgg tgaatttggc cataacagga 120
 cctgtaatat aaactcagtc ataaatcatt tcatcaccat tagactttta gaggtaaagg 180
 taacatacag acttaaaatc aaattatgaa gtcagtttag tcccaagcac agtcagtagt 240
 cactaaatta tagagaaaaa ctgcaagcaa attatctcag taagaattga aattaataga 300
 atgaaatgtt aactgagtca agtattagag tcatcgtttt tatgattgac agctcatctg 360
 ggggtgctaaa aatggaaaca t 381

<210> 18879
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18879

taggcccagtg gtcattttga tatgaccaac atgatgtagt atgccctaaa cctagtgcct 60
 atgcttggtta aagggcaccc aatgtcaatg acaggatagc caaacaaaaa tgtggaagct 120
 acttcagtggt cctttccatg tctttaaaat atcatgaatt cagtgcctaa caaagcaagc 180
 taaaaactca tttgtgacag cttgccacct tgtcatatgt gtttgtttcc cattgttttt 240
 gttgctgctg cattttctaa ctgcatgtaa agttaattgg ttaccatttt tctgccataa 300
 atttatgtta ttacattttg gaatttcaat aatggcagga catttttttt tccattcctt 360

tattatccat acttcttgta ccatgttgct nttgctgg

398

<210> 18880
<211> 402
<212> DNA
<213> Glycine max

<400> 18880

agcttgaggg gctcttctct gagaagattc tgcagacaaa ggaaaacaga aaattttgaa 60
caaattttca aaactctggc taaaatcatc taaaaacttc aacatagcaa aagtaagtaa 120
ctgacattgc taaagcatgc aagaaccgga ggaacaccct cacttggaacc atcaatgcca 180
ggaatgaaat ccattcgagg tccaatccag ttaaaaggcc tcacaattgt gaactccaag 240
ccattttcag caccctcagc tgccaataat cacacatcag tgagaattaa caaaattgaa 300
aaagaaaaaa aaaaacaaca cctaaacaaa aacaaatcaa aactcaccat aaatcagcct 360
ctcaatcaac tgtttcgac aggcataaga ccacctctgt tt 402

<210> 18881
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18881

atactcaagc ttgcagacca gtgatntgtt tgaggtaaca aatccgggat gctgttgcat 60
gtagacctct tcctctaaga tgccattaag gaaggcattg ttcacatcca actgctgtat 120
tggccagtta ttagtgacag caagagtaag aagaagtttc agtgataggc ttgataactg 180
gtgagaatgt ttctgtataa tcagtaccaa actgctgatg aaagcctttt gccactagtc 240
tagctttgta cttatttaca gtaccatcat aattttcttt gacccgaaac acccacttgc 300
aaccaatatg attactatca aggtccatg tattgttttt aatcaaggca tcatactcag 360
tttgcatagc agccaaccat gtagtatcgc taaggcttgt ttagtagata tgggttccaa 420
atgagtcaaa a 431

<210> 18882
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 18882

agcttgagat gatgttttgt tgaaggggtga aacttctctgc ttttattgtt gaccacagag 60
 tgggtacctgg agatatgtcg tgggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
 ttgccccaaaa ccaagcttga ccaatcccga cccaacccgg gcatagtcgg tcagtgagaa 180
 cctgtgatgt acctaaacag gcgagctcct ggcagtcaac agataaaagg aacaaagacc 240
 acaaagcaag gagggcttgtg gtggctggcc agctgtgaat tttgtgtaat atgtggatta 300
 tggcctctgg taatcgatta ccaaggggtgg gtaatcgatt acaaggctta naattgaaga 360
 caggaggcta agatgggtctc tggtaatcga ttacc 395

<210> 18883
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18883

ntataagcgc ggggtctggga gacaaaggtc aagtgggtcgc tatatgcgaa tatgatgttc 60
 cgagtacatt ggattttggtg cgaccatgcc ctctgtattt ccagctggga aattggcgag 120
 tggaggaacg ccccggcatt tacgcaatga gcataatgta aacctttacg gtttttaaaa 180
 gctctatagt tgggcctagg cttagagtt tttccttttg ttaaggctct gtgtcttttg 240
 ttgttgaatt tctaatacga ggacctttct tcatctgttc ctgcgtctct acccattctc 300
 attcatttgc atgttcactt cttnttttga aacggcagat ccgatgacga gtcccccgaa 360
 ggtactaata cctgggaccc gcttatcgac ttcgagcaag aatgaatca nacggaagat 420
 g 421

<210> 18884
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18884

agctttatat gcatgttcaa aggaaaatta taatcgttta gaaacaacaa acacttgaaa 60

atgaaaacct ataaatacta gatgctttga agaaatgagt aacgaaccta cacgctatca 120
 ttcaaattct ttatgtagaa aactctttgt atattcttat aaagtttgaa aagctctcaa 180
 aacatcttga atactctaag acaaaaaact aaatgcttag atttcacatt tgtttgtaag 240
 atgattaaga tttaatcagt tagcaaata aacaacatat cttttgattt gtatagaacc 300
 aacagtggct tggtaggaca aagaatattc ggttggttaa gcttgatgat aaactntggt 360
 gtgagagcta aaagtaactt ttgtgaaatt agtgaaa 397

<210> 18885
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18885

gaggtctttn tatatgtttc ctcggaatgt ttttgcataa gattttatga ttatgcaaca 60
 aaatctgctt tttcaaatgg aaagttttct tccggcatga aaatagattg tagatactac 120
 aaagtatttt aaaccttgggt gtgagttaga ctaatataga tacactatag tatttgatga 180
 tacactgcaa gtgaaatgggt catccattta ttgttctatt aatgcactca caatgtcttt 240
 acatgattag ctgaagatgt ttctatatga tttgttcttc tagactacgc cttgtcactg 300
 ttatatcttc aaagatatct ttgatactct ctcaatccac ttttaagact tgatgatcac 360
 ttctttctct tcagaaaagta atgatganga cgatcaccat gagcactgga atg 413

<210> 18886
 <211> 402
 <212> DNA
 <213> Glycine max
 <400> 18886

agcttgatcg tcttaaactg agttataatt aaccttctct gaagcgatca atctagatag 60
 ggataaacac catatgatgc ccagatttta cttccataac aataaatttg ttgattacta 120
 actgaatcta tttcagttga ttaaaaaatg tatgttttgt tgtacatttt tagtattgaa 180
 gttcgatcat ccctttaaat aaaaaatagc ttatttattt ttataataat taacttaaaa 240
 atcactactaa taaacatcta gtttaattgat aatataaata tatattaact gtgctcttat 300
 atcaatatta ttattatttt atcatgatta cataatattt ttggcaatta attccgtaga 360

tatatatata tatatatata tatatatata tatatatata ta

402

<210> 18887
<211> 417
<212> DNA
<213> Glycine max

<400> 18887

ttagttaggc atacacaata ttaacttttg taatattaga cacaagttat tattagcttt 60
aggtatatat acctaaaatt ttgacacacg taaattttga gctttgttaa tactagggta 120
aataattttt aggttttgta ataattattag gctaaacaat tttgagtttt aaataaatga 180
gttgattagt tatattatth gatttagtta ttttttagttt gaattttttt aatatatata 240
tatatatata tatatatata tatatatata tatatatata tatatatata tatatatata 300
tatatatata tatatatatg agagggtagt gtgcgtgagt acctgaggtg ttatatatth 360
agtgtgtacg agaataact atgtgttagg agatatacgt tattaaatat atgatac 417

<210> 18888
<211> 391
<212> DNA
<213> Glycine max

<400> 18888

agcttgtctg ttgttattht atccaaccac gtcagggcct tctttgtctg agaatttatt 60
aaggagtagt gtccttaag cacgctagtg aaaaaagaaa cattttgttt ctcacctcca 120
caagttcctt tcaaatgaaa ccctggcaag tgtgttatct tacagatatt atgaaaatgt 180
tgttcagga cactacaact ttgatacaga gggtcagtgt tcatactaca aaacctgct 240
gcactagaat tagccatact attgtctaca agctttcgcc acttgtgaca agcatcacac 300
tgaatccatg tatcattgta ctcaaaacag tcacctttag gcttcccaag cgacttgtht 360
tgagatacat gagatgtaac atctaatac t 391

<210> 18889
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18889

tactccagct tctgaacagg gttctcaacc aacttctgaa gcacaacat ttagtatggc 60
tatttctcaa gcactaccaa cttctcaagc aacttctaaa atagtaagag ggttgctttt 120
tgagagtgc aagtcacca agttggtgag attaagtgat gttgaactta aatatgttgt 180
tggtcaccat agaggtctta aattaatata ttgtacatca tatttgcagg gaactagagc 240
acctaccaa aagggtcaaga agtctaaaag atcaatagtt gttgcaaagt tattccctac 300
tataattgac agcttgaaaa agttgtcaga gctgacaaaa tgccaatcta taaatgatgt 360
gataaaaagg aaaatttgca atcaacaaga ttgactaaat tgtgtgacag gctgggttnt 420
ccaaaacaac caacat 436

<210> 18890

<211> 239

<212> DNA

<213> Glycine max

<400> 18890

agcttgtttg tgaagcttct aaggaggcta gatctttgag cttcaatgaa gtcctttaat 60
ggtgattttc caccatggag atgcagtgga agataacgga gaagagggtga gaggaggcac 120
catccactag ggaataagcc atggaagaaa gagcttcacc atcaagagag tgccttgat 180
aagaagctta gaaaggaagc ttcaatggag gaaaagaaag agagagaggg ggggggggg 239

<210> 18891

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 18891

ctttaggata tacaacagaa gaacatgac aattgaggaa tcaatacatg tttcttttga 60
tgaaactaat attacctctc cgagaaagga gtttcttgat gatattgtag attcttttga 120
agatatgcac aatcaagaaa ggaatctaaa aaggaagaga aatgaagaga acaaggatgt 180
tcaagctgac aatgactcat ccgatggttc ggagaaggag atcaaccttc tatccaagga 240
ctatgaaagc aatgagaaca tctctcaaga agtttaagca aaaagcaaaa gtctgacttc 300
catctttaa gatctaggca cttaaatcat gaaagagga acatcaaaac cattctcttt 360

taaattaagt tggttgaaac tntcctttca attaacttgt gtatatgatg actaacaaaa 420
 tttta 425

<210> 18892
 <211> 375
 <212> DNA
 <213> Glycine max
 <400> 18892

ttgtgcttgc tatgagaaat gttagccagt ctatggatcg atcgatacag ataagcttga 60
 accatatccc ggggagagag tgatcttaga ttgcgagtaa atgactaaca tcgagcagta 120
 tcctttgtat cagactctga atgaaatgca taagttgaca tgtgatgaag gccattgtcc 180
 tactttcaaa ctactttagt agaaagctta ccttgaatta taattgtact cctttgcacc 240
 ctttgtgagc tgaattaaat tttcaaattg aaccctgtgc tagactgact atctccatct 300
 accttgctta agtgctacga gagcatatgg ttcaaggcga ttttaaccta ctatggggga 360
 gttagttggg atgtg 375

<210> 18893
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 18893

tgtaatcgat tacacacata ctataatcga ttaccagatt atattttcat aaaatattct 60
 caattgtcac atcttttcat ttggttcttg aatggctatc aaaggcctat atatatgtga 120
 cttgagacac gaatatgcta agagttttta agaacaaaaa ggtcttatcc tcttaaaaag 180
 caaaatcgta ttatctctt acaaattcct tggcgcaaaa cacttgtgat tcaataagga 240
 attatttgag tgctcaaatt gttcaatcta tctctttcaa gagagatttc ttcttctttt 300
 cttctttatt ctgaaaaggg attaagagac cgaggggtctc ttgttgtgaa agaattctaa 360
 acacaaagga aggattgtcc ttgtgtgtat aaaacttgta aaaggaatat ac 412

<210> 18894
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 18894

agcttgaaat gtaaaatagt aattaggaga tcgaaaaaag tgggagttat tgtttggaca 60
agtggaagag gcgtattcca aatggcaaag ccaccattat ttacttttaa ttaattgggt 120
gagtttagca tcttggtttt ggtgctacct attgcttgcc gtggttgcag caatctcgcg 180
ttgcccagta gaggacacgc ttgtcacagt ctctccatgc atcttgatg aaaatttgga 240
cttctcgat caaacttatg taagtttcaa acaagaggat tcattgaaaa aattatgtca 300
aacaatttcg taatagggaa actaaccgat taaacaagtt tccccttcac 350

<210> 18895

<211> 403

<212> DNA

<213> Glycine max

<400> 18895

tgaagctggg gtaatcgacg gtttgcctgat tgggcaaagc tctgcgacgc aaaacaaagg 60
aaccaaatga gagaatggaa tgaatgtgga gagaaaatgg aagagcagag agagagagag 120
agatcaatag cataccatgt tttgtgtagg ggagaaagaa agagcgaacg gtgaagaaag 180
tgatatgtat taagagagat tggaaagaaa tgaagccaag ggtttataaa agatcgtggt 240
tgtttctaga gagagccact cttagcggtta acctcacgca cctcttccac ctggactttg 300
ctttatcact tttaaattggg cctgcaaaca taattacagc gacagcccaa actagcaatt 360
accacatata aatatctttt tgataaaaac attctgtttt gtt 403

<210> 18896

<211> 393

<212> DNA

<213> Glycine max

<400> 18896

agcttatgac gaggaagtaa tttttctagt gtacaataca atacaaaaac attgactttt 60
agattaatat aatttcatag tattatatgc atccttcata tcttatctcc atttcttttt 120
cagttgcatt gtaatacccg tcctcctcgg tcatgagcac cacctacctc ctccgagtgc 180
cgccacctcc accacgtcat agatctgagt gaggcatta acatctaccc caccatatct 240
gcgcttgagg catcaccacc gacctcatca atgccgcgct acccaaccag gtcctgtgac 300

gtgggaccat ctccgaccat gtacccccat ctgttgtgca cgcgctccag ctccacagca 360
tgctacaccg tcacacgcga ctgcaccagc aac 393

<210> 18897
<211> 418
<212> DNA
<213> Glycine max

<400> 18897

gtttacatag atacatagat acaactatca tattaatgta tcggaaatga tgaataaaaa 60
tcagaagaat tggaatgaaa tgactaagac aatgatgaag attaacagag caccagagga 120
aatgttcaac atagttcata ttaaggatca tggtatgaat ttcaagacta ttcttaaata 180
aacatggcat aatatgacac atcagtatcg cttatattag tatactttaa atgtaacctc 240
atggtgaagt gagtacgtcc tttgatgcat gatggaagga tcaactagag catatttagc 300
atctgctcga cagtaatgac aatatgcact ttgttaaata caacctagat ttggtgaacc 360
caactacatt ggctggatgg atagaactca tatatttgta tggactcata ggaaaaca 418

<210> 18898
<211> 356
<212> DNA
<213> Glycine max

<400> 18898

tcttgcttct attagttatg aagaacattt ttagtactta tcttgattga gtcttctctt 60
gattcttgaa tctggatctc gattattctt gaattcttgat gcttgaaact acattgtatc 120
ttgtaacctg attattcttg aatatgattc tttgaaactt gattcttgaa gctttttgac 180
tcttgattct gtgggacttg cttagctcta gattctctgg catcatcaaa atgatcttgg 240
aaagcattgc ttccacatta atcaatccaa cgatccatgt taagcaataa ggaattcgag 300
ttttgggttaa gtgtttcgaa atctgtagcg aatgggtcatc ctgttctcgg attcta 356

<210> 18899
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 18899

tcatcaattc ctcatgaaaa catagagcag cttanaagac attgacgata atgttttttt 60
tttttttttg tctttcctac atttaattta tagctttgtg gatctgatat tttttttttt 120
tgtttgtctg acatgccaat tgctcgattt tacaagaatt gtgcattatt tatcgagggg 180
tctagctcac ttggttgagc tggaggtgta agtgctataa actttctaatt attgtgttta 240
atgcttacga ataaaaataa tattagcaaa gaaataaagg tgaagtgaat atgaacaacg 300
tcatgttctc taagcataat aatagcatgg agtaaaacac gtgtgatttc cattgggctt 360
tgaaacctga tcttgcttgt gtgcatatga ctttgtgtta tacaatatct tct 413

<210> 18900

<211> 295

<212> DNA

<213> Glycine max

<400> 18900

agcttcttag gggccattgc tgcaaatgcg aacgtttgta acgcttgctc taccataggg 60
acgatactct tattgctgac atggcatttg acctactccc atagacacag acttcattgt 120
atatctagag caagcttatg cgcagatttc cttacatacg ttctcttgca catgactttt 180
tattatccga ataaaactat gcacctatat acaatctagg caactacgct gcctagatta 240
tttacgcgta cttccactgt gtattagtta cttacatcac acacaatctc ttggc 295

<210> 18901

<211> 322

<212> DNA

<213> Glycine max

<400> 18901

tgccgtgtgc gcacttgtaa gggctctgac actgcccttc tatggcagtc tcaaactcgtg 60
actgatatgg ctgccgaccg cactcaacta gcaaaaatgg tcgagaaaga gggcgccacc 120
cataaggaat atgcgcacgc gaggaagaac ttggccgccc agatgactcc tgccatggta 180
tgcgagagag atgaccacca tgatggaaga cactctggca gagttctact atgagaagct 240
cgcgagttac atgcgcgaca gctgtgcaga tctagtactt ggcggggaac gaaccagagt 300
ctgattgatc agaggaacgt ca 322

<210> 18902
 <211> 400
 <212> DNA
 <213> Glycine max

 <400> 18902

 agctttgagc caaaatcctg actcaccata aaccttgacc caggggtgaga atgtcaatcc 60
 ttaccctcgg aagcaaaaaa gaaaagaagg aaaatttcca atcaaagaga aagcaaaaag 120
 aaaagaagga aaattttcaa tcaaagagaa agcaaaaaga aaagaaagaa aattcccaat 180
 caaagaatgg gagaaagtaa aaaaggaaga agaagaagga aagaaagctc ctgatcaagg 240
 atcgaaaaga atcagaagaa atgtgcagaa aagtctttgg accagacaat atctgaacag 300
 tacaaaattg tcaccaaata aacaaaaaag gaaaggaaac cacgacctga aagtgggtctt 360
 ctccctttga ttaccaacca aaatcctgtg cgtcgggtgac 400

<210> 18903
 <211> 434
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18903

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 tacatcacag gttctcattg actgactacg cccgggttgg gtcggggatta gtcaagcttg 120
 gttttgggca atagcacccc acctgacgtc cccaaggtct cttgaccccc gcggcatatc 180
 tccaagtacc actctgtggt caacaaacaa aagtaggaag actgactctt ccacgctttc 240
 tcacatcaag cttagtggat tatggggcac ccatcatatg tgggtactagg tggcgattgg 300
 gcgatggcac aaatcaactc tcccatttcc acaaatacata cataaacata ccatccccag 360
 ttgcccacct tcatattgag ctacgcact cccacctagc ccttatactc gttcctctca 420
 gcaccgggtc ccca 434

<210> 18904
 <211> 393
 <212> DNA
 <213> Glycine max

 <400> 18904

agcttttcga ttcattctat gtaccgtag tgggccacat tgtgtttcgt gcatttttat 60
tctcgttttg tttacttttt atacccctg ttgacgtgct taagccattt tacttaagtc 120
atttctcgct taacttaaaa ataaaataaa tttccaccga acgtttgaat tgtattatcc 180
attaacttcg gttaaaataa attccgaccg ttcggtcgtg ccgtaaccac gttggaaatc 240
aaaaagaggt aagaaataat ataataatca aaaagacatc ttttagtaaa ataaagcgga 300
aatcaatcg gacgttttct ctttgggatt tctcattctt aatcgaattg attaataact 360
aaagtgagac taaaggctaa aatcaattcg cct 393

<210> 18905
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 18905

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atttgtattg aatgttttag actaggcatg tgtgtgatat aagttttttt catgcttagt 120
agtgatcaaa tgtgaagtga atgaagtatc ctttgtctct aagtttccta agtaaaagca 180
ataggactta cctctacttg aaatttggtt gcaaccatcg aattaatcga tttcctagct 240
tggtaatcga gtaccaaagt cagtttcaga agaagaaagg atctaccgct taggataatc 300
aattgccttc ctagataatc aattaccctg cttctaaaaa caatgggaag ctctttgtgt 360
gattcatcga ttactacaag tgataattga ttatcccaga aagcacagaa acattagaag 420
tattcagact g 431

<210> 18906
<211> 319
<212> DNA
<213> Glycine max
<400> 18906

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ccttgaggct tcattgagct tgcggtaatt gacgcatatt ctcacaacca acgataaact 120
tcgttgggat taggacattc ttgtcattgc aaatgactac cgtacccctt gtattcggca 180

ccacctggac tacgattaca taaccactgt gggaaatggg gtacatacgc ccaacactaa 240
 aaagctgaag cacctgtttc ctcacctctt acttcattga tggaggaagc acttgatga 300
 ggctggctga ctggtctat 319

<210> 18907
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18907

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 ctagggaatt aaaataactt aatgggtgag tgtaactgaa attgtggcaa ccaaaaagtca 120
 cccccaacag ccatcaatca gccaccatat ggtctcccaa aagggtgatg cctagggtgc 180
 caattgggcc cttattacaa cttgaactaa acctaactaa agccttttta gttgattaac 240
 ccaaaacata tttttgtca gccaaacttta caaggattgg gccattattt agacaaacta 300
 aacactctaa aattgagaca aagtgggtgcc atttagtcct cctccatttg ggccatgata 360
 caactcaca ccttggactn ttctccttga aacttngct tgtattcaaa tagtatg 417

<210> 18908
 <211> 387
 <212> DNA
 <213> Glycine max
 <400> 18908

agctttgcga aaagcttgcc gctggagctg acccattaac cgccctaggc tcttgacctt 60
 gaccttgact tgatagaact tatttttaag tgaaggcatt tgaattgatc ccatgtttta 120
 ctaaagtga caaaaatcgg tgcgaatcaa aactccgaca tcaatcatga gtggaatgga 180
 tgaatgcatg aagaaatgca tatgacacaa atgcaattta tgaatgcggg agcctgggaa 240
 attatctctt tcttagatac aacgtcttgg ggtagcacag tgcccgacgt atgtatttaa 300
 gaaggtgaca cagaccctcc attgggttgc caaagagagg ggatcaagac aaaaccctg 360
 catgatgcat atgcgaaagg cgcaaca 387

<210> 18909
 <211> 422

<212> DNA
 <213> Glycine max
 <400> 18909
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 catttaatga ttgaaaacc agattagtgt ctgctccagt aattatagca ccaaattggg 180
 ggcaagaatt tgagctgatg tgtgatgcaa gtgattatgc cataggtgca gtgcttggaac 240
 aaaggaaggg aaaaaatttt aatgctatat actacgcaa caagggttcta aatgatgcac 300
 aagtgaacta ttctaccaca gaaaaagaaa tgctggtaat tgtttatgca cttgaaaagt 360
 tcagatctta tctggtaggc tcaagagtta tcatctacac tgatcacgca gctattaaat 420
 at 422

<210> 18910
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 18910
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 acctccatta cacttcattt gtacctgagc ttgcttcctt atttttatta attttgttca 120
 tgtttatgtg tgagttgaat cttccccgcg aggatcaaaa gatataaaaa attgtaaata 180
 taagaatcaa aatgaatgtc ttaaactata gggactaaaa aaaattatca caactataag 240
 gactaaaagg gtaattaaat caaaattaaa taaactagag caaaataatg gtgggtgtgg 300
 tagacacttt taatcctaata tgtctccttg tagacatata tacctctaca tatgtgtgca 360
 ttttgcaacc accaccatta gtggaaaaaa at 392

<210> 18911
 <211> 441
 <212> DNA
 <213> Glycine max
 <400> 18911
 aatactcaag cttgttagat atgcacgac atcttccttg acaactccgt gattaagatt 60
 gccgtcaata tgaagagaga acaatttaga gagtgatcga agactttcaa atggatttcc 120

actgaattta ttcatagaga gatcgagata tcttaatgat gaaagttttc caaatgatct 180
 aggaagagca ccaccaattg agttgttgga aaaaagtaac gtgtcaatat ttttaaattgc 240
 cccaatatga tctgtcagat tgccctgaaag tctgtgaactc tgaactgcaa gtcttgtgag 300
 tccatgggaa atacaaggag cacgaatctc taaaagttca ttaacctgtt ggttgagtgt 360
 gagatatgat aaatctatca cccttaagtt gcagagatta cccaagaag ttggaatgtt 420
 tccttcaagt tgattatgtg a 441

<210> 18912
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 18912

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 gattctaattg ccattcacag tccatgtcct tttgggtggtt gggtcctcca atatcattgc 120
 tccatgtggc ataacttttt tgatgaagaa tgggtcaaacc acttgcaactt cagcttactt 180
 ggaaacaatg ttaatctaga attaaataac aatacttggtt ggccaagctg aaaattcctt 240
 tttgacaact ttttgtcatg atagattgtt actctttgct tataaagatt ggaattctca 300
 taagcttgaa ccttcagttc ctccaattca tggagttgaa gctctctgtg ttcaccattt 360
 gcattcgagt cgaagttcac aaattataat gcc 393

<210> 18913
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 18913

tcatctgatg tattagtaga taatttttaa tttgcttatt tatcattata gaataaaata 60
 tggatatatg ttttgcgga caatttttaga tttattatct tttttttcta agcagatgtg 120
 atcgactaca ctagacatta gcattggtga caaatatatt gttcaacctt tgtaccatat 180
 tattattatt attattatta ctattattat tattattatt attattatta ttattattat 240
 tactctctct tttcgtaaat cttttctttc tccaactttc atgcatcttt tgttttagtt 300
 attatgaaat ttttaatttg tttttgaaat aaataatcac ggctattgtt cccaacaagt 360

gtgttgcac tttggcgggc acaatcaaac aagagaatca caatatcaaa tgagtgagt 419

<210> 18914
<211> 379
<212> DNA
<213> Glycine max

<400> 18914

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atgtaacaga ttgtaatcaa tgtatttaaa atgcaagtta agttcttgcc tttatagact 120
cttcaagtct ggtcaagaaa accattacaa gagttataac ctttagaaaa cttttggaag 180
agttacatct tttgattttt attcaaaaact tatcattggg aatcgattac caaatcattg 240
taatcgatta taciaaagcat ttttgtaaaa cgatgtgact cttcacattt gaatttgaat 300
ttcaacgttc aaacacactg gtaatcgatt accaatatat tgcaatcgat tacaccatta 360
tgaaattgaa tggaacatt 379

<210> 18915
<211> 417
<212> DNA
<213> Glycine max

<400> 18915

tgcaccactc gagatcttga gcagattcat tctgggcaat gtatagttag ttgctagaga 60
actctatctc tcactttggg ctttcaaaca gaaagtgaat cgcattgtgat aatgatattt 120
gaggtggagt atttatattt gtggttgcgg catctccaaa tgcaccaaag tgtgatgctt 180
aatctacact taagctccat ggggaggggt tcaagaaggt gaatagttaa gtccatagct 240
ggttctgcat gggtcatata taaactaacc tgggttctaga ttctgcttc ttcccacacg 300
tttctaactt gttggcagcc aaagaagact cgtgcaatgg actcctttcc tttagattgc 360
agcctggtac ttgtagggag acagcatttt aatgtacgcc atagaaagtg cttgact 417

<210> 18916
<211> 308
<212> DNA
<213> Glycine max

<400> 18916

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 acatctgcgc ccgtggcaag agtctgaggt ctatgtactt ctacagatca ccatacagat 120
 cttaggcctt ctttggcgca tttagaagtc gacgagcaac ctaaagctga tgctgcaaac 180
 atttataata gacccacctc gcagctaaat ggactacagc agaataattg tgatctttta 240
 ggccacatat acactccacg ttggagaaat agatcgaatt agacatgggc gagtcctcca 300
 gaacgaca 308

<210> 18917
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 18917

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 tcgctaagcc aggctctggc cggcttagct aaaatgatgc atcttaagta caaaggagca 120
 tgcgcttagc tgataaggac tcgcttagtg cttacattgc cacatggaat ttagcttaac 180
 tgccatgagt ggcgcttagc ttcataaacc tctgttctga ccgtaaggaa tttagcttgg 240
 cgacaatagg tcgcgcttag ccaaggataa gttgttgctt agcattttag ctgtcgctta 300
 gccaaattgg attaggctca gcttcgcctt ggctagctta gcggaatgaa tcagcctaag 360
 atgaaggggt tagacgctaa gtgcttgaga ctcatggctt agcgcatgaa taa 413

<210> 18918
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 18918

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 acctccgcaa aggatgcttt ggatggaaga agcatacctt ggtgacagtt gtattatttg 120
 tctgacatgg tatttagttc aactgtgatg gacatattgg ctgtggatgt ggtgcatatc 180
 ctgagattgg tcaactatag actgttgtaa cttggatatt cacactctca ctttgggata 240
 tttattatgt agtgtatatg ctgtttttga aattgtaatt atgaatcatt gaatgtgtaa 300
 catacggtta gctatatcat tgcaactgga ccaatcataa gaataaatgt gctgagttca 360

aagtttttct act

373

<210> 18919
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18919

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ctggggttacc aggttaacca aggcattctag ttaccttca agcttcttat ttttagctga : 180
tgcagatgag tttgtggcta cctcatgcac tcctctaata actatagcat catttctggc 240
actaaactgt tgggagttgc aagccattct cttaattaaa ttcttggtt cagcaggggt 300
catgtctcct agggctccac cactggcagc atctatcatg cttctctcca tgttactgag 360
tccttcataa aaatattgga gaagaagctg ctccgaaatc t 401

<210> 18920
<211> 386
<212> DNA
<213> Glycine max

<400> 18920

tctgcatgct agcttctccc ctattttgct ataaataggg ggagaagtga agaagaaaag 60
ggttcagccc cctaggcact tctctctctc tcgaaatagc tgaggaaaat tagttccgtg 120
aagaaaatcc aagctgaggc gtttccgtaa cgtttccgta acgttttctg gagtaattac 180
gcgaagattc tcgaccgttc ttcaagattc atcgatcggt cttcggtttc ttcagtcttc 240
aacgggtaag tacatcaaac caagcttttc aattcattct atgtactcgc ggtgggtcccc 300
atttgttttg cgtattctta ttctcgtttt cattcgctgt ctataccccc ttttgacgtg 360
cttaagcatt tatttaagtc ttttct 386

<210> 18921
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18921

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aaccattact ttagctatcc taagtatagc aaccaagaag tcaatcaatt ttgtgtggtt 120
tttgctaatt gcatgtgtta ccgtacaact aataaaacaa atcaaaaactc agtgcgcat 180
attttgaaag aaagaattcg acattctaca gcaatttaag agcaatatac ccaccatagt 240
gcaacaattt taaccaacaa ttagaccaat tcaaaccaaa caattttaag cattcatgta 300
acccatgtat tttcatctaa agcaaagtgc taaaattcca agcttactcc atgctcttga 360
catttaattct atcaacctaa gtttatcata catctaanat gatggctaga catgcgtaa 419

<210> 18922
<211> 251
<212> DNA
<213> Glycine max

<400> 18922
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atatgactta atgatcaact caggattcaa cagatgtgac atggaccatc tctgccgcgc 120
taagatatat actaatagct atgccatcct tgtcgagtat gtggatgaca tgaatattac 180
aggatctcgt atggcacaaa tgcacagggt gaagcaccaa ttggcagaaa actttgatat 240
gatagatctt g 251

<210> 18923
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18923

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aaagattgga cctcttgcta gttgttatta atgaatagct taaacactta tgcttgagt 120
aaacaatagc tgtgagactg tggtttaagc tactttcctt gatatttgct ttatgcctaa 180
cttcatctaa ttgtacaagt tacattctac tcttctcttt gaataactgc gtgctttgtg 240
aaagacaagt gatgagggca ttttgcttca ttcttttatc atgcaatcaa taaatnctgt 300

gcatacacct tcatacatag tcattgcatg tttttgtcac ttgtgggacc agtgagatgt 360
tccttatttg cttgaggaca agcaaaaacta taaatttgag gg 402

<210> 18924
<211> 401
<212> DNA
<213> Glycine max

<400> 18924
agcttgtagc catcgtctcc acaccccatc ttaagatgaa attccccacc ttaatgggag 60
agatcgtcac tgtcaaggca aatcaaaaagc aggcacgatg ctatgccgaa agtttgaagg 120
tgacacctta tctcctact agggagtttg ccaggcctca ccccgtagcg aatgggtgaca 180
ctcaagtcac aagcatggat gaaaggctct cattctgagc cctgactgtt taccaagcaa 240
gcctggacga tgtatttgat gtaaactctgc gtaacgagac tgttgacaaa ggcccaaagc 300
ctagtgaat ttagctgaag tcacattata ttttttttta tcgaagtcac cttactaaat 360
tttgattgtg aaattatatt tttattatta taatagaaat c 401

<210> 18925
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18925
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caaactcagca tgggtgatgac cattaagaga acaatatgtg taagggcaaa ctttcatggc 120
tgaagttccc tctgactgag ttcccccaaga gctaagcatg aggtatgcag ggaactttga 180
gtccttcaaa gttgaagaac atgtagctct ctgtggtgca gcacacataa cagccctggt 240
ggattttcta gaacaagctc tagaagcctt gaaactagtg gttttggtca atgttctcac 300
caaactcaaa ctattagatg ttcttgtaa ggcttttgca ggtttcttaa cacatgcagc 360
tntggaatca ctggaaattt ttctaggaag attcttaaaa tcagaaccag gttgagtgtt 420
cctttggc 428

<210> 18926
<211> 405

[illegible]

| | | | | | | |
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| aaaatcttca | aaaacaagtc | acttgaagaa | ttgtgacttt | tggaaatgta | tttttcgaaa | 120 |
| tcagtcactg | gtaatcgatt | accattaagg | tgtaatcgat | tacacatcaa | caaatgtaac | 180 |
| ttttcatttt | gaattttgaa | aattaaaacg | tttagaagct | ttggtaatcg | attacaagta | 240 |
| ttgtgtaatc | gattacacaa | gtttaaaata | ctttaaaact | gtttaaacat | aagttataac | 300 |
| tcttgaaatt | tgaaatctta | acgtttttaa | acactggtaa | tcgattacca | gagagtaaaa | 360 |
| ctctntgqta | atgattttgt | gaaaacttgt | gctactcaat | attttt | | 405 |

<400> 18927

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
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| aagtgttaca | tgtatagtga | taaatattga | aggaaataca | ttataactcg | tatagagata | 120 |
| catacttacg | aaagtgtaca | ttacaagtca | tgccatttta | tgggatttta | tttttctctc | 180 |
| atgctaatta | tgttagctgg | tccacacgaa | tgtatttttt | gcgtaataaa | tttatctatc | 240 |
| acctctcaag | atthttgtga | gcccttacaa | caaattttgt | ggttaatgaa | aatgaatatt | 300 |
| tggtctcttc | cccaaaatth | ttgtttccag | catgattgtg | acacatttct | agtaatacat | 360 |
| aagaatgcgc | gtatcaagat | tccagatcat | tgtgacattg | gtccagcatc | | 410 |

| | |
|-------|-------|
| <400> | 18928 |
|-------|-------|

agctttatac aaatttggtt cactctcaat agagagggtt gaagaaaaaa ttacaaattt 60
ctcacacaga gattaggctt tagtttctct cactagaatc cttcaacttg tattcaagat 120

gctcttcaaa catgtcttaa agctctatgg aagaccattg aaatgggctc tacccaactg 180
 aaaaactcct ggaacaagtg gacaaacatg acaactatca tgaaatgaca gctcgcacat 240
 cattctaaga aagacattct gaggaacatt ctttataata tttttgaagc atcttttagaa 300
 tagtcattct gatgtttgct gagaaagaat ttatacttgc agtagattct tttgatgaat 360
 tttcactaat atgcctttct aaagtaatgc agcttcatca atca 404

<210> 18929
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 18929
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 gtggaatacc ctaaatgcct tagatgtctc aaaataccca agccatattc catcgctact 120
 tctagaatca aacttttagca agccatcctt agtgtctaga atgaaacatc gacatccaaa 180
 atgatggaag tataagatgt gggatttttt ttcttaccca agccatgaat tacccaaaagt 240
 cgcggaagtca attcgaggcc aaaaattgag tccacaactt gccatgactt atccacaaac 300
 ggatgatgga gcctatactg agcatgag 328

<210> 18930
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 18930
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 agttagaaaa acatgaaaat taggattttc ttgtgagagt ttttgctcga atttggggtg 120
 ccccatgttt gatactttac atagaggtag catggaaaac accttgcaat agtgtgtata 180
 cataggtaaa tataagaagt atgaaatccc tagcaaagtg tgaatgattg tcttcctaga 240
 tgaatgtatg atagtgtgga atgccttttt tgaatgcaaa tatgtgcagg atgtaattag 300
 ttttccaata tgcataataa taaataggag tgaacagta aaaatttgta tgggtgtactt 360
 caaatgtatg taagtagttt gtgataacag atgttttaga t 401

<210> 18931

<211> 429
 <212> DNA
 <213> Glycine max
 <400> 18931

gacacttaga ctctcagcct attgattatt gaccactcac cagaatttat aagctattgc 60
 cattaaccta gggaataaaa gaaaacttaa tggctgatct gtaactgaaa tcgtggcaac 120
 caaaagtcac cccaacatc caacatgtca gccaccattt ggtctcccaa aaggctgatg 180
 cataggttgc caattgagac cttattacaa cttgaactag acctaactaa agccctttaa 240
 gttgattaac ccaaaacata tttttggaca gccaaactata caaggattgt gccattatgg 300
 atacagacta aacactgtac aattgggact aagtgggtgc atttaatect actccatttg 360
 ggccatgata caactcacia ccttgggactt ttatccttga aacttggggct tgtattcaaa 420
 tagtatgga 429

<210> 18932
 <211> 394
 <212> DNA
 <213> Glycine max
 <400> 18932

tcaagctttt agccaactca aacgataata actttttact cggatgtctg attgagtccc 60
 gtaacatata gagacgctcg aaattgaatg ttgaacctct gagccaattc aaacgacaat 120
 aacttttttc acggatgtct gattgagtcc cgtaacatat tgagacgctc gaaattgaat 180
 gttgaacctc tgagcaaatt caaacgacaa taacttttta ctgagatgtc tgattgagtc 240
 ccgtaacata tcgagacgct cgaaattgaa tgttgaagct ctgagccaat acaaacgacc 300
 ataacttttt actcggatgt ctgattgagt cccgtaacat atcgagacgc tcgaaattga 360
 atgttgaagc tctgagccaa taaaacgac cata 394

<210> 18933
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18933

tcaacattca atttcgaccg tcttgatag tctatggact ttatcaaaca tcccgaiaaa 60

angttattgt cacctgaatt ggctcaaatt ttcaacattc aatttcgaca cggctcgata 120
 tggttaacgga ctcaatcaca catacgagta aaaagttgtg gtcctttgaa ttggctcaca 180
 gcttcaacat ataatatcga gcgttctgat atgctacggg actcaatcca tgtccgataa 240
 aatagttctc gccctttgag ctgggtcaca ggttcaacat gtcaatgtga gcgcctcgat 300
 atgttacctg gactcaatca gacatgagag ataaaggtat tgtcccttgc a 351

<210> 18934
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 18934
 agcttgaagg tatactagat gccttgggta acttggtaac ccagctggcc ttgaataaaa 60
 aatttgtacc tgtcgcaaga gtctgtgggt tatgctcttc tgctgaccac catacagacc 120
 tttgcccttc tatgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaaca 180
 tttacaatag accttctcat cctcaatagc aaaatcaacc acaacaaaac aattatggcc 240
 tctccagcaa cagatacaat cccggatgga ggaatcacc taatctcata tgggtctagcc 300
 ctcaacaaca acaacaacaa cctgctcctt ccttccaaaa tgttggttagc ccaagcagac 360
 catacattcc tccaccaatc caacaacagc aacat 395

<210> 18935
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 18935
 tcagctttaa agttcatgca gtacagtttt taccattcgt aaaggtttgt catcagcacc 60
 agccctatac aaataaaaca atagaaaata agtgattcga gttttttttt ttttttaaaa 120
 aggagagtag taactctatc caacaaagtt atatatacct tctcctaatt tctccattc 180
 ccaagtcttg caggtaaaaa tggatgcttt gaagtatgag atcaagggtca acatcataga 240
 tagtgctctg aagaacctgc aagcacaata aaataaatgt taatactgaa caaaatttta 300
 atgaacaaaa catatcaaga tagaatttgg caatttcaac tctgcttctt gacaatgaat 360
 aataaagcta acaatggatt aattaattga atatcta 399

<210> 18936
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 18936

togatcattt agatgactat aagattaatt ttttattcat atcttaatta cacttaaadc 60
 acttattttc aagaatgtat tttaggatat tgaatcaggt tctttcttat aaacttagtg 120
 tatatgatta attgagatac accagggtttt gtaaaaacta gtatttaaaa agccacataa 180
 atttgttttc atacttaaaa gttaaaaatg atatatagat tatttttttt tttttatcat 240
 tgtaggcttt aatcttacga agtggaatc ctcgttctca cggaaagcat gatataggag 300
 caacatttgt gctaagtga aaccacgcca gaatttcatt atttccatta acacccgatt 360
 ctgcttaaat tggcacacca cc 382

<210> 18937
 <211> 146
 <212> DNA
 <213> Glycine max

<400> 18937

cgttatttca caccgcatat ggtgcactct cagtacaatc tgctctgatg ccgcatagtt 60
 aagccagccc cgacaccgc caacaccgc tgacgcgaac cccttgcggt cgcacgaat 120
 ataacttata ttaatgcatg acttcc 146

<210> 18938
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 18938

tctagctttt tgactttcgg cgaattacgt catctgccgc gtcacatga acaagcatac 60
 tgacaatcga gccacgcaga ccggcggaaa caccgcactg gttatcccca taaaattttt 120
 gctgactgta agacgaaaag cctgattaca cgcagagact aaccgacgtt tgtgcgcctt 180
 tcgtcaatcg gggccgacaa cctcgttgac atgcggagat ttacgtcatc tttcgtgctc 240
 acaagatct 249

<210> 18939
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 18939

agcttttcag atttgggtcct cgccagtgaa aggatcaatg tgggtccgaa aagaggcaaaa 60
 tttgatcatc ctactaggac gactgagaaa actggggcaa ataaagaggg tgaggatgag 120
 ggagaaaccc atgctgtgac tgccattcct gtacggccaa atttcccacc aacccaacaa 180
 tatctttact cagccaataa caaactttct ccttaccac caccagtta tccacaaagg 240
 ccatccctaa atctaccaca aagtctgtct accgcacttc caatgacgaa caccaccttt 300
 agcacaaacc aaaaacacca accaagaagt gaattttgca gcgagaaagc ctgtagaatt 360
 caccccaatt ccagtgtcct atgctgac 388

<210> 18940
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18940

tccatcaagt ggtaatcaga gcacaagagc ttcaagtatg tgctccttaa acctccatta 60
 attatttttc ttaccttct ctccattgt tgtttcttca tttttctcca tgtatctcct 120
 cacatgtcct ggtctaaatg ttgttaacat gattcttttag agtttccacc gattaaactt 180
 gctatagaaa ctagatttga ttttctatgg ttcaaatttc ttgttttgt tcttgaacca 240
 tgaatttgtt tgagtttaag tccctttgag ttttgtcttg ttattatttg tggctgaaac 300
 ctaaaccata aaattcttac aaaaatatta tagtagaaca gaacctcaaa aatatatagt 360
 gacttggtca cctattgtag tttcttcata gaagtcatgt ctagtcatga 410

<210> 18941
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 18941

tttgcttctt ttggaccttg aacaggcaac taactcctct ttcaaaacca tgctatgtgc 60

tcgcgactgg tccctttctt cccttcgcaa cttgagttca ttattgctac cccatagagc 120
 tccgcgaaat ttgttccggc catactcttc cttgcgagcc ctcttgggtct cttgttcaag 180
 ggctcttgca gtaattgcat tctcttcccg taaccggca cactccttcc gaacgtgtgt 240
 agcagccaac ttgaacttct ccttggcgag ttttgcttt cctaactcgc tcttgagagc 300
 ttggacttct tcgtcctctt ccggtgcttc aaaattctct gtgctgacga cttttaactt 360
 ggcgagccaa tctaaacctc gtatg 385

<210> 18942
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 18942
 tgccacgccg tcgtcgttct gacccaaacc cattttgggc tcgtacccat gtcccaacat 60
 tacagggcta ccattaatac aacatcggat gagcgggggt gcaccggggg agaccgaca 120
 taagcattgc ttaccacttc caaagcttga aaggatttct ccaagcactc ctccgcgact 180
 tctacatata gcgtataaga aggacaactt acaaggatgt cttcctcccc cgagagtatg 240
 attaactgcc cttccaccac aaatttcaac ctttcgtgga gcattgaagg gactaccccg 300
 actgagtga tccaagaccg gcctagaagg cagttatagg ctgggttgat atccatcact 360
 tggaaaatga tctggtagac gtgggggtcca atatgaa 397

<210> 18943
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 18943
 agcttttgtc ccatttaacc tatcacgtgg agtgggttaa aattattatt attatataca 60
 aaactgtatg gttgatttat gggaaaaaag tgtaagaaaa gaaaaataag gaaggaaaag 120
 gaatagaaaa tatataaatg atattttttt ttcaaattgt atgataaaaa agaaataaaa 180
 gataacaaaa ttaataaaaa ctgtgtttta aattataaaa aaatttaaaa caaaaaagat 240
 aaaaaaaaaat tagaaaaaat ttgtgccttg aaccctagct tcagtgccat gtgcatgaga 300
 ataatttgta attaaatcac atgcatgact cggaaatcgg aaattatatg cgttgcttaa 360

acacacaaat gagataaggt tttaaaaatc tagcaaatta aaa

403

<210> 18944
<211> 426
<212> DNA
<213> Glycine max

<400> 18944

taactcgaca cacaagtatc ctccaattag atggcagtct tgagtccttg agagcagtgt 60
tatgctatgg ttacaaacaa aagttaatac aactcaagtg ttgccgattt gtaaccttga 120
caaatggtga tactgttgat aacgtaatgg agcaggctca taagaaagca gggaattttg 180
ggataccatg agccactcta gtatgtatta tttaagagaa aagagaagaa tgaaacctca 240
atacagttag ataaatacag aaaaacaata aagctgcatg ttgcttccaa ataaaaaata 300
gacattaatc tgttgtctca aaacaaagca aggcagcatt tccatttggt tccaaggcag 360
tataaaacca cttcgcaaca agtagagaat tatgagggaa acttcatcac aagaacagca 420
tacctc 426

<210> 18945
<211> 402
<212> DNA
<213> Glycine max

<400> 18945

cttcttatcc aatgetcacc ttgggtggtga agtccttct tccatggctt attacctagt 60
ggatggcgcc tcctctcacc tcttctcctt tgtcttccgc tgcattccca tgggtggaaaa 120
tcaccattac aggatctcat tgaagctcaa agatccagcc tccataaaag ctccacaagc 180
aagcttccat caagtggtaa tcagagcaca agagcttcaa gtaggtgctc cttaaacctc 240
cattatTTTT tttttgcttt accttctctt ccattgttgt ttcttcattt tttctccatg 300
tatcttcttg taacaccctg atatatatat atatatatat atatatatat atatatatat 360
atatatatat atatatatat atatattatt agtaattata tg 402

<210> 18946
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18946

tgtaatcgat taccagagca gattntcaga aaatattctc ttcagtcaca tctttttatg 60
tggttcttga atggctatca aaggcctaca tatatgtgac ttgagacacg aatttgctaa 120
gagtttttca gaacaaaaag gtcttatacct cttataaagc aaaatcgttt tctcctctta 180
caaattcctt ggctaaataa cttgtgattc aataaggaat tatttgagtg ctcaaattgt 240
tcaatctatc tctttcaaga gagatttctt cttttcttct tcttcattct gaaaagggat 300
taagagaccg agggctctctt gttgtgaaag aattctaaac acaaaggaag ggttgtcctt 360
gtgtgttttag aacttgtaaa aggaatttac aagatagtgg aactctcaag cgggttgc 418

<210> 18947
<211> 402
<212> DNA
<213> Glycine max

<400> 18947

agcttgtgaa tttattgtgc ttggtgacta attggtgcag aaaaacaaag taaagctcaa 60
agaaacaaaa ttgaagaact gaagtagctc gctcagcacg tcttaggcgc ttagcgcaac 120
acagtggctt agcgggcaac agaagcttag cgtcaagaag tatggagaag tctggaacat 180
gaaggcttgc ttaacctgca gctcgtttct atgtttggga tgatccccac ttattcaaga 240
ttggagcgga taatctattg agaagatgtg ttaccatgga agaagctaga agtatattat 300
ggcattgtca caattctcct tatggcagat actacagtgg ggataggaca actgctaagg 360
tgctacaagc tgaatttttt ttgccttcta tcttcaagga tg 402

<210> 18948
<211> 420
<212> DNA
<213> Glycine max

<400> 18948

aagctccttc aactgcacaa ggctatcaat ataagaagag tatgcttgtg gaaccttcac 60
ccgacgaaga cactgacaaa aacttatctt ttcctttcct gacaaaatat ggaacgctat 120
gtgcaagtaa ataattcttc catcaaacct tggatgcaac tgcgatcgta tgcccatatc 180

agctatatct tgatgggtat tgaagccata ctctgtctag cattgaatgt taaggaacgt 240
 tccaatcaca ctgtcacaaa cattactgtg cacatgcata acatcaatac aatgttgaac 300
 gtaaatatca caccataacg gaagatcaaa gataatggac ctcttcttac atatgcagct 360
 attactttca tccctctttt gagtctagcc aaatacaata atcacgtgtg gaacccgctc 420

<210> 18949
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 18949

agctttttcac aaacttactc tcttgcttga ccattaacca ccttccttag cttctgccaa 60
 gactctgcaa ttggctcatt aaccatatca ccaccaccag catactctcc ttctcccaac 120
 ctatctttctc ttctcctctg cactatccct aatttacacc accacttacc ccacttgcca 180
 aacctgttca atcccttttg gccatcccca tatgcagcat cacaagcatc atccttagaa 240
 gcagactcca ttacactatc agatagaaca ctattggacg tttgcaaatt cgcacccctc 300
 aaatcattct cagttatcaa tacctttgcc ccatagaaca actcactgga ggcaggggaa 360
 accttagcat tagatatcac tctcaattca tcaacatccc ccatt 405

<210> 18950
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18950

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 ccattgcctc cctcgcttag tattatgacc agccgttaag gggcttcacc tttggggact 120
 tccagctatc acccatgggtg gaagaatttg aagagatcct aggatgccct ctagggggaa 180
 ggaattagac cacaaaaagc aagtcaaaaa tgggggtggtt ggaataccga gaaaatgttt 240
 ggaggcaaaa gcaagaatct tggcaggtag aggcgatgg gccccattca tagacatcct 300
 cgcacttttg atcttcaaag gagtccctct tccaaatgtg gatggggttg tggacctagt 360
 agcgatcgac acttttctcg cctatcatga ccgcaaggaa agctcgggta tcgctatact 420

<210> 18951
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 18951

agcttggttta tttcatcggt gtttaccaag ctgctcaatg gtctggctat cttggagaag 60
 tccttgatga atcttcgata gaaacctgta tgtccaagaa aacttcttat acccttggca 120
 tttactggtg gtggtaactt ctcaatgaca tcaatttttg ctttttccac cttaatgcct 180
 caggttgaaa ttttgtggcc caacactatc ccttctcaaa ccatgaagtg acacttctcc 240
 caattcagca ccagatttat ctcaacagat cttcatagca ccggctctag attcatcaag 300
 caacaatcat aggaaggccc acaaactgag aagtcacca tgaagacttc tatgcacttc 360
 tctaccatgt cagcaaagat ggctagcttg cacctttgga 400

<210> 18952
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 18952

tactcaagct tgaccaatcc cgaccaacc cgggcatagt cagtcagtgt taacctgtta 60
 tgtacctaag caggcgagct cctggcagtc aacagataaa aggaactaag accacaaaac 120
 aaggaggctt gtgtggtggc tggccagttg tgaaacttga ttgatatatg ggatgtggcc 180
 tctggtaatc gattaccaag ggtgggtaat cgattacaag gcttaaaagt gaagacagga 240
 agctaagatg gtctctggta atcgattacc aaggagtggt aatcgattac caggcttgaa 300
 aacgaggtca ggaagctagg agggcttctg gtaatcgatt accaaggggt gtaatcgatt 360
 accacgctta caaatgagac tggaagatta tggaggtctc tggtaatcga ttaccagtct 420
 gtgtaatcga ttacac 436

<210> 18953
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 18953

agctttatctt tggtcatta cctgtcatag gcttctttta aaggctcggc tcggcttaca 60

taagagtatg ccttgacctg cgagcctatt taaaagtcta cttaaagacg tatttaacca 120
 attaatgtt ttaaaccta gtaaaatact aactaagaaa aaaaacttat aaaatttcct 180
 gtacaaatcc aaaaataatt gataaacaaa attatattga attcaagtta tttaaacaca 240
 aagtatatca aaagaaaatg aaaaaaaaaat gcataatatt aaaaaatata tggattagag 300
 atgatttata ctaatatagc caaataaaaa tatttaaatt atttgaaaat gtctttacaa 360
 aacattattg tctttgaaag tattaatctc gttgca 396

<210> 18954
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 18954

tacattgatt gaatgctttg tttgactggg ttttgcttgt tatgttgtct ttgggtgtgg 60
 aataacttgt atgtatgata tatgatgtat aattgataac ggtaattat gagtatattt 120
 tgggggttaa ctatatagaa ttttgcaatc tttttctctt aatttttcct ttttgaacaa 180
 ataattgtcc aattaatatc atttaagttt ttgtgcagag aatattaaaa gtgatggatt 240
 tatgatgctc ggtgagtaaa ataaagccca aaatatatga taattcagga agacaagaat 300
 aattatagaa aacgagtaaa ttaaggataa tgtggctaata caaggaaatg aggctaatta 360
 acataaagaa actaattacg gaaaacagac atattaatga aagcatgact aatga 415

<210> 18955
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 18955

agcttgtatg attatggggg acccatcaca tgtggtacta tgtggcgggc ggcgatggg 60
 gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatattct cgtttctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca cacagcacia 240
 gctatcacag ccaagcaaaa caaagcatag gcagaaaact ctgctcaaac accaaccaaa 300
 aatcacagct tttccactc aaagacccca gtaacaattc cttcgatcca atttgctaac 360

cgttggatcg actccaaaat tttactggaa gt

392

<210> 18956
<211> 416
<212> DNA
<213> Glycine max

<400> 18956

tcgccgactt agtattttac ggcataacga tctaagtggg ttggaacaga agctaattctg 60
gatatcctgc tttgacgaac atgagaccta aggaaaacgg agagagtaag atggaagatg 120
gatcccatgt tgtgactgct gtcccttcat gaccaaattt accaccagct gaccaatgta 180
tacactcatc caatatcagc tgttctcatt acccatcatc ctatgaccca gaaacaccta 240
atgctccaca tggaaacccc taaatcagaa tcaaaaccca tctgccgcac atgcgatacc 300
aaacaccacc tttgacacga accatagcac caactatgga atgaattatc cacataagaa 360
gcttgtgaaa tacaccctaa ttccaatgcc atatgctgac ttactttcat atctac 416

<210> 18957
<211> 391
<212> DNA
<213> Glycine max

<400> 18957

ttagctttgt aaagcggcag aaaagaaaat caaaagtga cagatgaag atgaaagcaa 60
acaaaacatg aaatgaattg aaagtctcgg attcgaacac ttaccggttg aagaccgaag 120
aacggacaaa gaacgttgaa gaacggtgga aaatcttcac ggatttgctc acgaaaacgt 180
ctcgaagcgg ttacggaagc acctcgactt gaattttctt cacagaaaca cttttttttt 240
ccacccaaaa caactgaaat gcatagcata agggtcaggg atccttgaaa ctcagcctcc 300
tctcctata tataggagaa atggggaagt gcttgccacc cagaggcttc ttgaggaaga 360
tttctaagca caccctatat actaagttca c 391

<210> 18958
<211> 411
<212> DNA
<213> Glycine max

<400> 18958

tgaaaacat tgactgggcc tttagatggt cctaaatctg tgctgttatt acaatgcca 60
 tgccacacct aaaatatttt atgagaactt caagattcca ggccatctaa aatctaattg 120
 cattaatcaa ttaataaaga acaaacagac aatccagtgc ttgacttgca acacaacaaa 180
 ggaaacatgt ccagaacacc ttgctaagca ccaataacaa agtgagcaac agggggggact 240
 ctgggcaaca aggaaataga tgaaagaatt accttgttct ccagatacct gactgagcaa 300
 aatattggag acagggaaca tggcttggat atgggccgaa atttgggaga tagaggggag 360
 gcaaaaaatg aggtagtatc aggggaaagc actgatggct cttctgatta c 411

<210> 18959
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18959

ttcnnagctt ctactacttt tctgaggaga ggcgaaacga cgcgttattg aaatcggaga 60
 gctgcatggg cgacacggtg acgctgctgg cgagaatcgt gcgagtcgga ctacaaattg 120
 agattgatga cacaagagat tgaggaggcg gagatgaagc gggtcgaccc tagacgcttc 180
 catgctttct ttagcgatgg cggcgttacg tctcgcgttt acccattcat tcattaatgg 240
 tttttgtaag tcccctttac tccttctatc atcattggta agtctctttt gctcttgatt 300
 gtgattgggt gtgcacgtga gagttattat ttttcccat ttggatatat tgtcgagcac 360
 ctgctgcat 369

<210> 18960
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 18960 .

ttgggcctct atcagaagtg tcattgcatg aatctagatt tatttcattg tcaatgcttg 60
 cttggtagaa ggtcagggtc cggactaaag acctttcgtc tatgcttatg acatgagtgg 120
 tactatccac tatgggacaa aggctccctg tgtgaggata gggtgccact ttcaggcttt 180
 cctcttaaca ctgttgtgcc tgcttttgat ctgccttgat agtcacaatt tctcctgcca 240

[illegible]

<400> 18961

| | |
|-------|-------------|
| <210> | 18962 |
| <211> | 408 |
| <212> | DNA |
| <213> | Glycine max |

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| agtaggatta | tggcgatcc | atcacatgtg | gttctacgtg | ttggccagtc | gacggnngcaa | 60 |
| aacaagttct | ccacattcac | aaatcacgta | caaaccaccc | atcccctgtt | gcccaccttc | 120 |
| aactgagctc | acgtactccc | acgtatccct | tatgctcgta | tcacgcaacg | ccaagccccc | 180 |
| atcgattctc | ccaagcttcc | acaacatcca | attaattcaa | catacaatca | tcatgaacta | 240 |
| actcaaccga | gaaaataaag | cacaggcaga | aaactctgct | cataacacaa | accaacatca | 300 |
| cagctttttc | acactaaaat | accccagtta | tattctcttc | gttccaattc | gctaaccgct | 360 |
| ggatcgatta | gaaaatctta | ttggaagtct | ctagtacata | agactaca | | 408 |

7939

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18963

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 gaggctcgta atatatacgag acgctcgaaa ttgaatgttg aagctctgag ccaatataaa 120
 cgacaatgac cttttactcg gatgtttgat tgagtcccg aacatatcga gacactcgaa 180
 attgaatgtt gaacctctgt gcatattcaa acgacaataa atttttactc agatgtctga 240
 ttgagtcccg taacttatcg agacgctcga aattgaacgt tgaagctctg agccaataca 300
 aacgaccata actttttact cggatgtctg attgaggctc gtaatatata gagacgctcg 360
 aaattgaatg ttgaacctc 379

<210> 18964
 <211> 410
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18964

 tcaacattca attgtgagcg tctcgatata ttacgggact caatcagaca tcagagaaaa 60
 aagttattgt cgtttgaatt ggctcagagc ttcaacattc aatttcgagc atctcgatat 120
 gttacgggac tcaatcagac atccgagaaa aaagttattg tcgtttgaat tagctcagaa 180
 gttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatcata catccgagta 240
 aaaagttatt gtcgtttgaa tttgctaaga ggttcaacat tcaatttcga gcgtctcgat 300
 atgttacggg gctcaatcag acatccgagt aaaaatttat tgctgtttga atttgctcan 360
 agattcaaca ttcaatttcg agcgtctcga tatgttacgg gactcaatca 410

<210> 18965
 <211> 389
 <212> DNA
 <213> Glycine max

 <400> 18965

 agcttgtgct cttgcctcac tcatcgctt tttggtttca tttctagcta tcttatactt 60
 atcccaagtt tcagaatttc tacacctaga ccaactcctg aaacactcct ttttactct 120

aactttgctc tgaacatttt cattccacca ccacgattct ttacccttag gtccaaaacc 180
 tctagattca cccaacgtct ctttaaccac ttttaataatc tcttgggaca tcttgttcca 240
 catatcattt gcacttcctt gtgattgtcc acaccaaccc tcccatatct tttgttggaa 300
 gattccttgt ttctcaccct tcaagtgcc aattttgatc cttggtgcta ccataggact 360
 tcttctcttt gccctatctc taattctta 389

<210> 18966
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18966

tgcttgcgga gcttctatgg atgatggatc tttgagcttt attgtggtcc ttcaatggtg 60
 atttttcacc atggagatgc agcgggaaggc aaaggagaat aggagagggg aggcaccatc 120
 cactagggaa taagccaagg aagaaggagc ttcaccacca agaattgcct tggataagaa 180
 gcttgaagag gatgctntaa tggaggaaaa gaaagagaga agggggggagc acgagattga 240
 aggaataaaa gagggagaga agtggaactt tgaagtgtgt ctcataagac tctcattcat 300
 cacagttaca acaagtgtta cacatgcttc tatctataga ctaggtagct tccttgagaa 360
 gctgtcttga gaaaacttcc ttgagaagct tctttgagaa aacttc 406

<210> 18967
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 18967

agcttattac aaatcgaaca tgtgcaagga cactgaacaa ttttcccact tctgagatgt 60
 tttgatcaaa gaaagcacca ataactagtt ccacgcataa aacatcaatt ttgtcctgaa 120
 aattagtctt gaatttggca ccacccatca gtttggacct tgatgttttc gaaaagcaaa 180
 atccatttga tccccaaaat ttactgtcaa tttggtctta ccattatcaa atcagtcaat 240
 tagtccttga atttgacaat cattagtcaa tatgctccct aatgttagga accaaattga 300
 ttaataattg caatactaaa aaactaaatt ttttgtaatg tcaagagtaa gattgattga 360

tattgttaaa gtaaaggact aaatttcctt ttccgtaatg

400

<210> 18968
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18968

tagggctgaa aggtttgttg aaatacgcaa taggggtggcc atattgagaa agaactgcac 60
ccattccgac gctggaggcg tccgtctcca ccgtgaatgg gagctgaaaa nttggtaagg 120
tgagtaccgg aactgaagac agagctgcct taagggtgttc aaaagctgat tgtgcttggg 180
gtgttcacta aacaggttct tttgtggtga gctttaccaa gggagcagca atgggtggcat 240
atccctttat gaaacgccga tagaatccgg caagtcccag gatgccacgc acaacccttg 300
aagattgagg tatgggcat tgaaggatgg cctctacctt cgaggctacc ggttctactc 360
ccttcttcga gaccatatgg cctaaatatt caacctgcaa ctgcgcgaat aagcattttg 420
ataat 425

<210> 18969
<211> 400
<212> DNA
<213> Glycine max

<400> 18969

agcttgtgtt gcattctcaa acaccttcac aggtggccaa agatcaacaa actatgaaag 60
ataagaggga taaggaaaat aatagaaaga gaaaagaaga actaacttta atagttaagg 120
aggagtgtaa ggaggttaagt gtctcctcca aaagggttagc taagaaggaa agtcattttg 180
caataaagac aaatattaaa gaaacttccc ttcttagaca acctccacat tttctcctct 240
ataaaagaac acttgtagc actaccatac ctcttgagct tgagggttatt ccttaagtaa 300
atgagttttt ggatgagggt ttgggtcgta agagcttaaa tccttgtagc tttggtggtg 360
tgatgaatgt gttgagtggg gtgcaaccct cttttgtaaa 400

<210> 18970
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 18970

tctacaattc aggtcagttt tgtagctgtg aagctaactt tatactttga caaatcttaa 60
 agctctcctt gaaaagaaac aaaaaagaat gtgtgttggg actaaaaagt aaaaaccatt 120
 cacacacgaa ggagctataa attaatgtgg ttaagaaaag tgttgagtgg aatgacttgt 180
 gggcttttta gttcatatgg gggcagctct aataacatct gctaaaaagc ccaaacaaga 240
 accacaagaa aacctaacta ctgaaatata atatcagcta tcaactagag gttcactctt 300
 ctgcttttct tattaattag tcatatgctt gtgttagttt atttctaatt ttatcatatt 360
 gtagttgggg taggggggtat tttaaactgt catattctaa ggcaacacaa cattccaata 420
 agt 423

<210> 18971
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18971

agctttcagc aaattcaaac gacaataact ttttctctca gatgtctgat tgagaccgt 60
 aatatatcga gacgatcgaa attgaattct gaagctctga gctaattcaa acgacaataa 120
 tgatttgctc ggatgtctga ttgagtcccg taatacatcg agacgctcga aattgaatgc 180
 tgaagctctc agctaattca aacgacaata actttttact cggatgtctg attgagtccc 240
 gtaaaatata gagacgctca aaattgaatg ttgaagctct cagcaaattc aaacgacaat 300
 aactttnttc ctcatatgct tgattgagac tcgtaataata tcgagacgat cgaaattgaa 360
 ttctgaagct ctgagctaata tcaaacgaca ataa 394

<210> 18972
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 18972

tcagaattca atttcgagcg tctcaataga ttacgggact ctttcagtct tccgagcaaa 60
 acgttattgt cgtttggatt agttcaaagc ttcagaattc aatttcgac gtctcgatat 120

attacgggtc tcaatcagac atctgaggaa aaaagttatt gtcgtttgaa tttgctgaga 180
 gttcaacatt caatcttgag cgtctcgatg tattacggga cttaatcaga catccgagtt 240
 aaaagctatt ggtgcttgaa tttgccgaga gcttcaacat tcaatttcga gcgtctcgat 300
 attataccgg actcaatcag acatccgagt aaaaagatat tgcgtttga atatgctgag 360
 agcttcaaca ttcaatttcg agcgtctcga tgtattacag gactcaatca gacatccgag 420
 caaat 425

<210> 18973
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 18973

agcttgatgt cattttaag agactatgtc gacctaaatg aagactgaac atgtattgtt 60
 tatctaattg tattcattat gcgatataat ttgttgcaag tcattaaagg ataattatta 120
 agtactcgtt gcgttaagaa aaaaattagt tgggtgcaacc aaaatcaatt atgcatgtac 180
 gatacatcgt tgtcataatt gacaacacat aacgatatgc atgcatatta aagtttgagc 240
 atgacacgac attgacttag taggaaacat aaacacgaaa catgttcacg cctgttcttt 300
 tgtaaaaaaa aagtgaagca atctatcggg gagaaccatg tatatatatg agacgtggca 360
 tacgctaata aatcacacat tatcttgctt tcacatactc 400

<210> 18974
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 18974

tgaagacaag actatacgag gtatcttcct tgggtatagc tttatctcta ttggctaccg 60
 tgtctacaac ttgcaaacta agaaactcgt cattagtcga gatgttgaag ttgatgagta 120
 cgcttcttgg aattgggatg aagaaaaagt ggagaagaac gttcttatac ccgctcaact 180
 acctcaagaa gaagctgagg aagaaaacc aggtgaacca ccttcgcctc caccacaaca 240
 acaagatcaa gaactatcat caccagagtc tactccaaga cgagtaagat ctttggtgga 300
 catatatgaa acctgcaact tggccatact caaacctgga agctttgaag aagcgtcaaa 360

gcaggaagta tgggttaagg caatggaaga agagatatag atgatcgaga aaaacaacac 420

atg 423

<210> 18975
<211> 401
<212> DNA
<213> Glycine max

<400> 18975

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gaccaccgtt cttccttccc gcgatgcttc ttttcatgtc cgcctgagtg ggcttatatc 120
ctaaaccata cttcccacga ttcccttggg tttttatcag actagtcatg ccgccattgt 180
ctttgcctaa acccatcccg ggttcataac cgttcccca cataactcgg gccatcatta 240
ccgcgcctc ggatagacaa ggttgcccaa agagtgaagc cacggaggaa atgtgacca 300
cctcaaaaga ctggaaagcg gtttctaacg attcttctgc ggcttcaca taaggcatgg 360
aggatgggca gctcaccaag atatcttctc cgcctgacac g 401

<210> 18976
<211> 436
<212> DNA
<213> Glycine max

<400> 18976

tactcaagct gtaaaatttg aattaaaacg ttcaataact gctggtaatt atttaccata 60
tatgtgtaat cgattacaca gtgcaaattt tgaattcaaa ttttaatagc tggtgtaaat 120
catttttggc cattggtaat cgattaccag agagttaaagc tcttgaaaaa gactttttta 180
tttaaatttc ttggccaaac cttttgctac ttcaattgga attcccttcc tatttaatat 240
acccttccta agactctaga gactgtcttg atcatccatc ttgaatatct ttaatttctt 300
tgtcttgcac aaatctttga gaagcatgtg atccatgtga tcctttggca tcatcaaaac 360
attcagcttg atcctttgtc tacaatctcc cgctttgtga tgatgacaat ctctgaaatc 420
aagacaagct atatac 436

<210> 18977
<211> 390

<212> DNA
<213> Glycine max

<400> 18977

agcttttatta gtcttattcct tgggcccagacc agcatacatg atgaaggga gggcaaacaa 60
gcaaaagtca tacctcatgc atatatttat ctccatccat attcaacaaa tcatggcaca 120
tagcatcata ggtccattca tgaatgacag gtgcaatctg tgggtgcagat tcaatacagt 180
catcaaaatt gagagctata aaaggagaca ttcatattca tagtgaagag acattttttaa 240
cctgatctat ggatctgtca acaatgagca tatcacaagt ttcattatgt ggaaaaccgg 300
gaatggtaga tttatattta gaaaccatgt cccaaacagc attagcaagc ttggtaggaa 360
ctaattcacg aaccgctgct gctgtagact 390

<210> 18978
<211> 415
<212> DNA
<213> Glycine max

<400> 18978

tgagcatgat ttgttgaacg agaaagcaag atttgacact ttatatagcg catgatacga 60
cattcaaaag tgaatgaacc agcaaaacaat tgaccaatca tatcagcatt ttcattgcaa 120
accatattgc aggcattcatg atttgaataa atatgcttcc ggtcatcaac caaagtgctc 180
tcaaaaagta caccttgatt gcttaatttt gtaaatgaat aaaataaaga ctgatcaacc 240
acaatgggaa ttttatgcac ctgagaagag ataacatcat cccgaatttt cagattatta 300
taaaagatac ggactaactc atgatagtat ggcagtttga gagtcataaa atcgattaat 360
tcagaatttt gaaagacttg ataacaataa aaaaaatctc tctttcaaga attat 415

<210> 18979
<211> 384
<212> DNA
<213> Glycine max

<400> 18979

agcttttatca tgggttgaca tgatatatgt caggggttgg tttagttaaa ggataaaagg 60
ggatgtccca cattatttcc atgacacaaa tgcaacaatg atgatttgga aattttatgc 120
aaaactagtc atgcatgcac ctatgtggac actcaagtgt caaactttta tgggtcatgtg 180

atgctagggc tcaagattca tttcctctat tttagtcaac ccagtgtttc caaaatacgt 240
 tcctttatca atttgtgcat tcatccgagt ctattttcgg gtgttcgaat aactttcaca 300
 gcattttacc ttcaggtgta tacacattat ttcaaaaact gggatgatc agtgaattgg 360
 aaattatctc ttttacaagc atgt 384

<210> 18980
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18980

ntattccctt aaaaatcaaa tgcggaaaac gtttcnatgt gtgagtaatt acacatgttg 60
 ggcaacgcgg gcagtgcggg cacctagaca ttgatactat accctatggc cgccgtcaag 120
 ggcccagcct cggactctga ccctgacctt gaccctcacc accatcctat tccattccat 180
 tctctctctc tctgttccat tatgccactt gtttttattt ttcataact tagtttcact 240
 tggcgccctga taatgttcaa cttttccttc aatttgttct aaacattcac aatgtaccac 300
 tttggtacaa tataacttaa cgatgcatag tgatannttt acctacatga ttgacactta 360
 attntgcttc ttagatatgt agttaaaactc taatctagat tttagagaaa cattt 415

<210> 18981
 <211> 395
 <212> DNA
 <213> Glycine max
 <400> 18981

agctttttaca cgagctagac gcatggcaat gaaggttcaa ctacaaaactc taacaaaagg 60
 gtatctttct atgcttgaat atattgagca caaacactcc attgctgact ctcttgctga 120
 aaatcttcat ccaatttccg atgaggatct tattggttat attttaagcg gccttgattc 180
 ctcttatagt gctttctcaa ctgctttcat gatgaagtct gatgatgtct ttgttgatga 240
 tcttgctggc cttcttcttc aagaggaggc tcgcttagag caggaacatg ttcataagc 300
 tgttgttgtt tcacagccca ctaaccatc cccacttttg tctactcctg ctatttacac 360
 taaaaatcgg ttctcagacc ggtcctcttc cacca 395

<210> 18982
 <211> 417
 <212> DNA
 <213> Glycine max
 <400> 18982
 tgaacgaatg tgagacacat cttattcaac cttgtgtgat tttgactcca tctcattgaa 60
 gcgcataatcc acttgtaatt tcaaagtgtc aaacctttca ccaacaaagg tttgaagacc 120
 attaaaccta tccaaaatct ttgaaagaag agatgaatct tctccatcat gtccttcttc 180
 accaacaatgt cgagcaccct tcttcaccca agagccatca tgcttttttt gataaccaaa 240
 ggatgctatg actgaagcgc ctgtaaggaa ggatctcttg attggaacat aggggttcata 300
 atcaagaggg atgttgaagt gttgaaggaa aagggttaaca agatgaggat aaggcaatgg 360
 agcattcaat cgcaatgcct tgtgcatgcg atatctaaca agatgtgccc aatcaat 417

<210> 18983
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18983
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 tactactatt tcagccaact gttctttggt gaatgctatg gatgaggtag ttgaggcacg 120
 tgatgtcctc ccatagtatt gactaattgt gacccagac ccagctgcac gaacacaacc 180
 tccatgatct ggtcttctta tggccatggt aagtatatct tgacgaccct gggggacaaa 240
 ctcaccctgt gtcacttggt cttccaacga gtcctacatg aagaacaaat ttcacatcgt 300
 tagatttcac tgtcattgta aacaacataa caagtagtaa ttatatgtga aacaacatgt 360
 cacatttaat ccanaattga aatt 384

<210> 18984
 <211> 391
 <212> DNA
 <213> Glycine max
 <400> 18984
 taagctcctt caactgcaca aggcttttat gttagcttct tatgtcaggg ttagcattat 60

tattttctct tccatagaag tcacccaaga atattcatgc aat

403

<210> 18987
<211> 380
<212> DNA
<213> Glycine max

<400> 18987

tagctttggt atgtcaaatt ttggttcatt acttttactt tcttgtcttt ttatacttct 60
cattataacc attgattact ttctcttaaa attgatccaa tggctgataa aaaaaaaatc 120
ttaagttatt attttttttaa aacttcatag agaagcattt ttactttctc tctctttgtc 180
aactcttgac aaaacccatt tccatctctc ctctgcaccc catttcttct tcttctcttc 240
ccatttcggt tattttcccg acaattccca acagtgtgcc gaggtgagtt ctgaatctca 300
tccttctctt ttctgttttc catttccact ttggggatac taatgtcaaa gcttcttgat 360
agttttgatt tgacaatcat 380

<210> 18988
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18988

ntgagccaaa atcctgactc accataaacc ttctccattt gagaatgcc aatccttacc 60
tcggaagcca aaataaaaaa gagagagaga gagaagagaa ggaaaatttc caatcaaagg 120
aaaaaggaga aggaaaattt caaatcaaag gaaaaaggaa aggaaattcc caatcaaaga 180
gtgggagaaa gcaaaaagaa aagaaagaac attcccaatc aaagaatggg agaaagaaaa 240
aaagagagaa gttaaaaaag aagaaagctc ctggtcagag aaaccagaag aaatgtgccg 300
agaggtcctt ggaccagaca atatctaaac aatacagaat tgttcccaaa tgaataaaaa 360

<210> 18989
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 18989

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 ttgttgatga taccatcttt tttgoggaga atacactgca aaatatcata tgcacaaat 120
 ctatcatgag aagttttgag ttggtatttg tactaaaagt caactttcat aagagtagct 180
 tgggagggat tgcggtgaat gctcacttta ttcataggta tgctcactta ttgaactgct 240
 cgtccatgct tttgcctttt acctacctcg ggatccctat tagagtcaat ctaagaaggg 300
 agtgtgtggg aaacattttt agataagtgt aggaaaagat taagcaaagtg taagcaaaaa 360
 tttatttcta tggggggaga gtctcttana taaattcagt tttt 404

<210> 18990
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 18990
 aataactcaag ctttgacttg agttatcaag agattataaa tatgtggata tggcatgaat 60
 ttcaataatc tataatctat ctttaaactc tctctcaaca tcattcaata tctttcaact 120
 ctttctacac aattttctga ttcattttctc ttcatttttc taaaagtttt tgttcaacac 180
 tttcttttcc gagaaaagtt ctttggttcaa aaacttgtgc tattcatctt tttcattctc 240
 ttctcccttt gcccaaagaa cgaaggacta accgcctgaa ttcttttgtg tctctcttct 300
 cccttacaaa agattcaaag gactaaccac ctgaaaattc ttttgattct tcccttcccc 360
 ttaagcaaaa gatttcaaag gactaacctc ctgaaatatt ttttgtttcc ctttcaaag 420
 attcaaagga ctaa 434

<210> 18991
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 18991
 agcttctaca ttcaatttcg agcgtctcga tatatgacgg gactcaatca gacatccgag 60
 taaaaagtta ttgtcgtttg aatttgctca gagcatcaac attcaatttc gagcgtctcg 120
 atatattacg ggactcaatc aaacatccga gtaaaaagtt attgtcgttt gaatttgcac 180
 agagggtcaa cattcaattt cgagcgtctc gatataattac gggactcaat cagacatccg 240

agtaaaaagt tattgtcgtt tgaattggct gagagcttca acattcaatt tcgagcgtct 300
 cgatatatga cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360
 tgagagcttc aacattcaat ttcgagcgtc tcgatatatg acgg 404

<210> 18992
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 18992

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 atcgagacgc tcgaaattga atgttgatgc tctgagcaaa ttcaaacgac aataactttt 120
 tacttgatg tctgattgag tctgtcata tatctagatg ctcgaaattg aatgttgatc 180
 atctaagtaa attcaaacga caatatcttt ttactcggat gtctgattga gtcccgtcat 240
 atatcgacac gctcgaaatt gaatgttgaa tctctgagcc aattcaaacg acaataactt 300
 tttactcgga tgtctgattg agtcccgtca catatctaga cgctcgaaat tgaatgttga 360
 tgctctgagc aaatttaaac gacaatatct ttttactcag atgtctgatt gagtcccgtg 420
 a 421

<210> 18993
 <211> 403
 <212> DNA
 <213> Glycine max
 <400> 18993

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 tggtagctgg agatatgtcg cgggggtcag gagaccttgg ggacgtcagg tggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccga cccaacccgg gcatagtcgg tcagtgagaa 180
 cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg acaaagacc 240
 acaaagcaag gaggtctgtg gtggctggcc agctgtgaat tttgtgtgac atgtggtttg 300
 tggcctctgg taatcgatta ccaatgggtg gtaatcgatt acaaggctta ataatgaaga 360
 caggaggcta agacggtctc tggtaatcga ttaccaaggg gtg 403

<210> 18994
 <211> 408
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18994

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 gacagccatg gtttcttcaa tactttttat tcacgtgaat cccaatatat ataccaattg 120
 aggcgggtttc cttctgaacg ggaacggagg tttcagagca tcaccgaact gtgcaagtgt 180
 gacatcagca tcggcctcga tgaacatgac ccgcttgaga gtctatctca gataggatct 240
 taatttcgcc attattggtg atattagcta caaataagtt gtgtgactca tggagtctgt 300
 ccagcgttat tgtataggca tggaattgat cattatccac atgtgtggat aaatttcttg 360
 aaagccgaca agaaaataac gaanacatat tcaaattaag ttttgaat 408

<210> 18995
 <211> 385
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 18995

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 tgctcgctac ttcaaggatg ctcatgacag ggtatgatta gttcttttct gtgaagctgg 120
 ttggaactag aataaaaaaca tcgggggagtg gtagaatgaa cctaattgggt taaagaatta 180
 ttttataaaa taaacttaga accaggggaa aaattcaaaa acctcagatc ccctccagcc 240
 ccaaaaaaat aaaaataaaa acaccacgaa ccttgtcttt catctaattgt gtggtacttt 300
 ttactgtgtc ttgtcacagg cgcttagtcc ttatgagttt gttgaaagta tgaagaagaa 360
 gggaattngt gtggnaggaa taggg 385

<210> 18996
 <211> 415
 <212> DNA
 <213> Glycine max

 <400> 18996

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 cttgcaggct gcaccatggc ggaaaattca cgtgaaagcg cttcatggag ttggtattca 180
 cgtaattttg taatcctctt ttctatttat ttataatata tctattgtat ctcttctaga 240
 tgatatattt atgatggaac ttgcatgcca attaagaagc aataatagaa ctatatagca 300
 attcacaatt gtaatttgca ttccaccaa cttccctatg tagagggtac tgtacgtgta 360
 atgctataat taagcaattg ctatatatca actgacgtgt caatccacct ttcta 415

<210> 18997
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 18997

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 aagggtgaga atggagaatt gcacaaagca atcactacgc atagctcaa actcgaaggt 120
 ggaggacaca tgaacgaaaa cgcaattcat gggctccgaa aaaggggtga gaatggagaa 180
 ttgcactaag caatcactac gcatggctcc acactcgaag gtggaggaca catgaacgaa 240
 aacgcaattc atgggggtcc gaaaaagggt gagaatggag aattgcacta agaaatcact 300
 acgcatagct tcaaactcga aggtggagga cacatgaacg acaattcatt catggggctc 360
 cgaaaaa 367

<210> 18998
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 18998

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 accatacttc ccacgatttc cttgggtttt tatcaggcta gttatgccgc cattgtcttt 180
 gcctaaaccc atcccgggtt cataaccgtt ccccaacata actcggggcca tcattaccgc 240
 cgcactctgac agacaagggt gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300

aaaagactgg aaagcggttt ctaacgattc ttctgcggt tccacataag gcatggagga 360
 tgggcagctt accaagatat ctctctcgcc tgacacgatg accaagtgcc 410

<210> 18999
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 18999

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 gttccgagta cattggattt ggtacgacca tgccctcctg atttccagct gggaaattgg 120
 cgagtggagg aacgccccgg catttacgca atgagcataa tgtaaaccctt tacgggtttt 180
 aaaagctcta tagttgggcc taggcttttag agtttttctt tttgttaagg ctttgtgtct 240
 tttgtttttg aatttctaata acgaggacct ttcttcatct gttcctgcgt ctctacccat 300
 tctcattcat ttgcatgttc acttctttnt ttgaaacggc agatccgatg acgagtcctc 360
 cgaagtacta atacctggga cccgcttata g 391

<210> 19000
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19000

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 acctggagat atgtcgtggg ggtcaggaga ccttggggac gtcaggtggn gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aaacatgcga gctcctgtca gtcaacagat aaaatgaaca aagaccacaa 240
 agcanggagg cttgtggtgg cttgccagct gtgatttttg tgtaatatgt ggattatggc 300
 ctctggtaat cgataacaag gttgggtaat cgattacaag gcttanaatt gaagacagga 360
 ggctaagatg gtctctggta atc 383

<210> 19001
 <211> 391
 <212> DNA

<213> Glycine max

<400> 19001

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aatccatctt gctcatcctt tatgggtttca tcctatagtt cctaagaatg gaactcttgt 120
aggcttgatc aatttgtaat ttagttgagt aacatatacct tgtccattat ataaaataaa 180
atctaattta tttatgcatt tgcgccaatg tccattctc ttttttatgt ttgtgttcgc 240
aagagtttaa tatcattatg agacctagtc gggttcttga taaaattggc ctttggttaa 300
aatcatctta tggatgattt atcgcttgca aggcatagta ggtctccttg ttctctaata 360
acatcagtcc ttactaacat caacttgtgg a 391

<210> 19002

<211> 415

<212> DNA

<213> Glycine max

<400> 19002

tgaaggagtt gatgagctag gccatccaaa ctccggagct tcaccgatat ttggcacgat 60
tgtaggatt cgattactct atccaatatc aaacaagaaa aatgaatgtg gttgcagacg 120
cgttgtcacg gtgtttggag ttgcccaatg cttcatgttt catcctctca atgccacatt 180
ttgtgtttgt ggaagatctc tataaggagt tgcaatcgca taatgacttc atcactctga 240
gggagaagat ccaggcgaac ctagaagatt acccgatca cgtgttaaca accaatttcg 300
ttttgcatca agggcgatc tggtacctt cagactacac catcatcaag gctctgctca 360
cagaatttca tcaaactcca acagggggta atatgggttt tcgaaaaacc ttgaa 415

<210> 19003

<211> 326

<212> DNA

<213> Glycine max

<400> 19003

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tcccacacaa agcaacattc gacaaggat gacaggataa agagtgtgta acgggttaga 120
acaataggag gaacgaaatg aaatggaaca aagagcacag aagcgaaaca taataaaata 180

aaagttctac tcatagcaag agatatcata atggaacgga aaaaagctcc tgatcaacta 240
gaaggaaagt gaacggacga gaccactgac aaccatctaa agtgcgatac tacctacagt 300
gtataaacac cagacaactaa tccata 326

<210> 19004
<211> 344
<212> DNA
<213> Glycine max
<400> 19004

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gcagctgaag gatgctatag gggtcttgat ccttcagatt cagtctttgt ttcttggttg 120
ttcttttttct tggatttatt tctcattaaa aaaatatcaa tgaaaaatat gatggattaa 180
ctgggttttcc tttttctggt atcggagaaa agataatgat tttcattggt ctctattattc 240
agtatttggga tttgtacatt ctttattggt tattatctat tcattcatta tatcagtaaa 300
tcttactttt tcttgataac aatatttgat gcaaaaataa aata 344

<210> 19005
<211> 393
<212> DNA
<213> Glycine max
<400> 19005

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agatgaatgt ctgcgtatag aatgtagcca tgattggaga tgagggtgtc taggaaaaaa 120
aaagttaaaa atcacaggtc acatcacatg acacatgaag taaatggaat taacaaaagt 180
gttagtttta aaaaaaaagt caatactaag ggagttttat atatgatgta tcacgatcgg 240
acgacaatat aaaattaaat atttttttta aaatagaaaa atttgagaaa ttgtcattaa 300
tgtgtattta agaaaaaaat atgaaaaaac taaaataaat gaggaatgat ctataatttg 360
agaaaaaaa gaagatctag gaatcatcta cgt 393

<210> 19006
<211> 373
<212> DNA
<213> Glycine max

<400> 19006

tgtagaatgg ctagacatga tacatgtcat gttttggttt ggttcaagga taaaagggat 60
gccccacatt atttccatga cacagatgca aaagtgatga tttggaaatt ttatgcaaaa 120
ctggatcatgc atgcacctat gtggacgctc aagtgtcaaa tttttatggt catgtgatgc 180
tagggctcat gattcatttg ctctattata aatcaaccca atgtttccaa aatatgttct 240
tttatcaatt tgtgcattca tccgagtcca ttttgggctg ctgggaaaat cttcacagca 300
ttcacccttc atgtgtatac acattagtgc aaaaactagt tatgatcagt gaatttttcc 360
aaagacaagt tgg 373

<210> 19007

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19007

tnnttcgctg caacaaatgc cgcaatcgct tccagcactc gtatgatctc tttctccttc 60
tcaaatcata accatcatac aaaaatcata attacatgca cttcatatta atactccaat 120
atctctcttt atcataacac aatcatcttt aattttcaca atacctctaa tctctattgg 180
tttcataatt aaccatcata cacaaatctt gatcatcatg gcaatactta tgctattgct 240
ctacttttta tgttcatata tgtgtagctt cataaaacat gtatgctntt tttttggtac 300
ttttcaatgt tgggtgttact tangagtnga atanngctta nagttattta atatatatat 360
atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat 420
atatatatat atataatatg nnttttn 446

<210> 19008

<211> 565

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19008

gcaccagca cgtcacacan cgcgagaccg ccataaaaga aaccataann tactcccccc 60
cncccccccc cccccggaga ggatgatgca tagaaagccg aannancnc nnnncccgna 120

gancnngnag agncgaacng cacgcacgca agcgctgtac ttatacctga ctcaccatag 180
 accaggaccc gaggtgagaa tgacaaatct taccgccgga agccaaaaga acagaaagaa 240
 cgccgcccac caaacagAAC gcagaaaaga acagaaggaa cactcccaaa caaagagggg 300
 gagaaaggca aaagaagaga aagaaaattc ccaaccacag aatgggcaca agcgacaacg 360
 aagaagaaaa aggacgaaac ccccgacagg gaacaaagag acagaaaaca gggcagaagg 420
 cagtgaccgg acataccgaa caaacagaat gtaccaatga acaaaagagg aaagaaacca 480
 cacctaaacg gcctcccctc gataccacca caaacggcg ctacgactga ttcgggtgaa 540
 caaacaacaaa cagaaaaaaa agccn 565

<210> 19009
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19009

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 cttgaaataa tagacaattg ttattgggtc agcccataag tgtttaaggg ttgagtgatc 120
 actaagcatg gtcctagcca tttcctgaag aaatatactt ttcatttacc tctaaacata 180
 atctaatttg gtgggtcttg agttgaaaat ngtgggtgaat accattctct ttacaaatat 240
 ttacaatatc ttttcaattc tccccatgtt actttaattg agagatacat gatatgacta 300
 ttgattcttc aaaaaataaa cttaaatttg catcacagatt a 341

<210> 19010
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19010

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 gaacaaagac gatcatagac aatgaccgct gttgagttca tttaatgtaa ttacaaaatt 120
 gccactatgt gatttttctaa gacggttctt tatgaccgtc ttagaaccgg cgaagtaa 180
 agcacttata atggaaataa ttacaaaaat gtcaccgcgt tgcttttctaa ggcgggttta 240

cagaaccgtc ttaaaatagt tgtcttagaa aactgttttt gtagtagtga ctgccagaa 300
 ttagctgaga gagatcgctg caccaacaat tggttctcat ggatgatgca aatagttcat 360
 ccctantttt tccttgatga tcttcatect tccagctat 399

<210> 19011
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 19011

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 taacatttac atttatataa taaaataatc tggtaggctt taaaatattt tttgaatgac 120
 ttaaggggta acatttttaa ctaattatac ttttataaaa tcattaaact aatttatttc 180
 ctaaaaaaag tgtggtatga cttgactgga cgtaatctgt gtataaacta ttattttacat 240
 tatcaataaa aaattatcct ttatatgatt ttggtggtaa gtaattaaat tacttatcat 300
 atattatttg gaatgagatt aaagtataaa aaatgggtaca tgcatatatt atttatttaa 360
 taattatata tcctattaga attttcatte cttttctata tct 403

<210> 19012
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19012

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 tcctagtaaa tcgagaacca cttgaaatta gtgaaaaaaa ttggttccgt gaagaatata 120
 caagccgagg cgcttccgta acgtttccat gggtgatttc gcgaagatct tcaaccgttc 180
 ttcaacgttc ttcgatcggt cttcatcggt cttcggtctt caaccggtaa gttcccgaaa 240
 tcaaactttt caattcatte tatgtacctt agtgggtctt atttggttca cgtgctttta 300
 ttttcatttc atttactttt catacccat tntaacgtgc tgtagtcatt tgcttaagtc 360
 attctcttgc ctaatcaaag aatacaataa aattccaccg atcatttgaa tgtaatatcc 420
 gtaatttctg ttaaaaagaa tccga 445

<210> 19013
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 19013

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 aggctggata aaaagaaggg taaaacttac catgataaaa agctgcttaa gaagaatttt 120
 caaccaggac aacaagggtt actattcaat tcaagggtga aattggtact tgggacgctc 180
 aaatctaaat gggtagtga tggacaaagg ttaaagctgt accatggtgg aactattaaa 240
 agattaacca ctattctatc cttccaagaa taacaaagaa ctatgcatca agctaataac 300
 gttaaacgag cgcttactgg gaggcaaccc gacacttttt aaattttgtt ttcttgcat 360
 ctaattcagt tgga 374

<210> 19014
 <211> 220
 <212> DNA
 <213> Glycine max

<400> 19014

cgctatggat acatttttga cagaccaaag tctggtttag cgtgtaggtg agaccgcttg 60
 acaattgttg acagcttgat cctctctatc tgctttctga gctgccaata gttgacgaag 120
 gcctctatcc attctggcat caccggtgct actagctcct tcgataactt caccattggg 180
 ttatcacagt tttgtgggtg cacatatata ttaaaggagc 220

<210> 19015
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 19015

cggaagttt agtagatcgc cactactttc ctttcaaaga caaacccaat tcttggaata 60
 gctccgctat gatgatgctt ggtgggtgag taggtgaagc atcttttact ctatagcaag 120
 aatggcaact cttgtatact taacgaagat ataaatggag ctgctaacgg cagatacttt 180
 gcctccatag gaaaactaac attttcttat cctgaatttt tattctttct attggatctt 240
 cttcagtcgg aatctcaaca ccagcttctg aagaggtgca ccaccactgt ataatgcctt 300

cctcgacgat aagagacaga tggaacaaac gtaacaataa tt

342

<210> 19016
<211> 239
<212> DNA
<213> Glycine max

<400> 19016

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gtcgaagaac cggtgaaatc tttgcgaaat tcctcacgga aaacggtacc gaaacgtttc 120
ggaagcgcct cggcttagat tttctttacc gaaacaattt ttccaagcaa attcgaaaga 180
gagaaaagta cctcaagggc tcaaccccggt tcttcttgcc ttctccctt atttatagc 239

<210> 19017
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19017

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aattccttcg atctgtcaga acatcatgca aggcaagttg gtcttcgatg tcatggaaac 120
aaacttcttg cactcggta ctttctccta aacgggtgatt ttgctcgcca attgttcatt 180
agatgactcc attgaagctc atgtcacgta ttctgccc taacagatat aagatacaag 240
ctactttatt catttgacta gtccactgcy caatcataga aaatatttca agcaaagctt 300
tatgcatagc aaagacataa agtctatctt aatatcacat acagcagcac caatgccaga 360
aagttcggct gcatacgaat atatttataa gactattcta gcaagttctt taa 413

<210> 19018
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19018

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cattccgttc ctgatttcaa ggnttgcatc atccaaaaag gggagattgg agaaagcatc 120

ctcatgatga tgaaccaagc aattttgatg atgcccacaaag cccagtgat tgactcaaga 180
 tcgatttaag acttccagat caagcatcaa gaatcccatc ccagattcaa gattccagag 240
 aagaaatcac gaagcaataa gtcagacttc atatgtgata agtattaaag aatttttcaa 300
 aaaccaaata gcacagtttt tgtttaccaa aagatttttt taaaattttc aaaagtacca 360
 aaaggattac tctctggtna tcgattattg agtattcagt atcgattacc agtgaccact 420
 ttgattttca aatgttn 437

<210> 19019
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19019

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 agatgcttca attntatatac taggcacga attgaagttt ctacaagcat catcaacaaa 120
 tccaactttg tcatatagat agagtactac aaattagaag agtaaacaac ccacgaattt 180
 cgatctacaa agttgaattg aaacaaaaat tagaaatggg ggtttgacga anattggaaa 240
 agttgaatta aaacaaaggc ttaattataa aatatagggt taattatgtn taaataattt 300
 aaaaatcana attgatgtat tttttataga aatattcana acttatttta tataatanaa 360
 gtataatata ttaatanaat aaaacttata tttaataata tattttaatt tatgtgaaaa 420
 tagaatttaa tttatatatt atat 444

<210> 19020
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19020

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 tttttgagaa taattatgag agcttcatcc aaggagaaaa aaaggatatc ccacgccata 120
 caccatatgg gagattaacc aatgggtatca tcacaagtcc agggtaaaag attcaaactt 180
 ttaataatat tatggaaaga tcgagcatag aaccaagaag atagttatat gagaagcaca 240

tataccaaat tatttttcagc aaaaatcaaa gaattttgac attacaagtg tcacccatta 300
 cctcaatgaa ccggatgaaa ttccacagcc aagaatgtca aattagtatg taaggaacct 360
 aacgcagatt gatatacatt ggaatggttg gatattgata ttagggacct tatangaata 420
 tacaatgact ccttagtaca attcactn 448

<210> 19021
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19021

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 tgggggtggat atgcttttgg ttttgcaagc aatgtatgat gtgtaaagtg agggaaacct 120
 ttgtatttga taactcttcc cattactgac tgttggagag tgcgttgaag acaaacgtta 180
 tgtttttatc gttgtggtaa gcgtgtgcgg cgcattgcaca gtactcttgc atatgtgtca 240
 ctcatggagt gcgctcgtac tgaaaacgtg atatgtgggt gaatggngat acatcgtggt 300
 gcataaaatt agagcaccac ttcaactccc accagttatc aaagagctta tgtcctctgt 360
 aaatgaagtg gacgtttaat tcgtgatcac tgtcactttc aatatctatc ttctttct 418

<210> 19022
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 19022

ttcttcatgc cttttctcac atgtcttctg ctaaagtggtg ctaacatgat tctttaaaat 60
 ttccaccaat taaacttgct atagaagcta gatttgattt tctaccgctc aaaattaatg 120
 gtcttgggtct tgaaccatga attatgttga gtttatgttc ctttgagttt tggcttgcta 180
 tttcttgtgg ctgaaaactg aatcataaaa ttcttaacaa aacattaaag tagaagaaaa 240
 tctcaaaaat ctagagtgac ttgtcaccta ttggagtttt ttcataagaag tcttgtctag 300
 tcatgaaact tggcacataa aatttcttat gttgcgcctg aatttattgt tcttgttc 358

<210> 19023

<211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19023

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 aatgatgcaa agcagtcaga gatgaagtat acaagctcct caaagtcaac ttcattcagag 120
 aattcagctt ttccaccagg ctcaccaatg tcgtcatggt caaaaaggcc aatggcaaatt 180
 ggggaatgtg caccgactac accgatctga acaggggtgtg tccaaggat gcataccctc 240
 tgcccaacat caacaagcta gtcaatggag tgtttccaag ttctaagctt cctagacgcc 300
 tactatggat acaactagat ccggatgcat gctcaagacg aggagaaaat gacattcatc 360
 attgaagatg ccaactnttg ctacaaggcc atgccttttg ccttaaaatg gaggcgctac 420
 atactagaga tgggtggtca gatctt 446

<210> 19024
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19024

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 gtctatatac caaacatcca tccactggga ataatccgac ttgagcaaac ctcggttaaca 120
 tcaatggttg gggaggcgag ggtctcctgg ataaacgtcc gatgctgacc tgggtctctta 180
 atgctcgcca ggtaagataa aacatcaact caatcgttct gttccctgtc aacgcggacc 240
 aattctttct gttcaaaatg ctccaagagt tgtttgacca ggtggtagta cttctacatt 300
 tgtgtctctc tagcttgaaa tacctcatta acctgctcaa tgatgatctt ggagtcgctc 360
 tancacctta acttctntat gtcaacctcg atcgtagct tcagtcctac gatgagagct 420
 tcacactct 429

<210> 19025
 <211> 315
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 19025

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ccagaagcaa cagccttctg gaggaatctt ctgaaaggcc caagtgggcc tggttgctat  120
ttgcaccccc atttttacta agtacacccc ctacctttnt ttggtgattc ttttttcgta  180
aagttacgga aacttacgaa tttcgtaacg atactggttt tctttccgta atgttacgga  240
accttggtga ttacataatc atcccccttn tgacttacgg aatattacgg aacctcacta  300
attgtgcaac gatgc                                                         315

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<210> 19026
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19026

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ttcgtgtgct gagaagtcca agagccttta aaatactgag attggtggaa aaccaaaggg  120
caccacgaca accacagcct agccaaccat ctaccacgtg aaaaacagag agaagaaggg  180
cagagaggct ggagaagaca ttctccttca tctttttcca ttntctttca caaaaaacat  240
ttatttcctt gtttgatga agctntgctt gatcaccat ttgtatgtt agttaggctt  300
tntagtgttg gaaaatgctt tanaacctta gaacttgata gagcaagcta gaaatctatg  360
tgtctaggat tagaatggca gtaatctagt atatttaa atgtatgctta gtggaactct  420
tttagaaatg agttgtga                                                         438

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<210> 19027
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19027

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gagtgtaatc atgcatataa gcctaaatcc atctaagga atgaaccctt aattgagctt   60
ttagatcaaa gattaatgaa tgtgttatga gaaagaggat attggttcac ctgatggtta  120
cgcttgagat tcctcagaca ttctcttaac tggttcagctt ttgcttgtgt attataaaca  180

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gactttgact tcttgaatt gaatcaagta aaaatcatct aaacgtagat aacttggtgt 240
ccacaataac agggtaaac gagttacagg aaaaaaaat tagttatcat attgacaaat 300
anaacctagg atctatgaat tcagtgtata aataaatcga tcttaatcgt acctttttct 360
tgtcta 366

<210> 19028
<211> 346
<212> DNA
<213> Glycine max

<400> 19028

aatcaaccac agcagaacaa ttatgacctc tccagcaaca gatacaaccc tggatggagg 60
aatcacccta acctcagatg gtccaaccct caacaacaac aacagcagcc tgctttcttc 120
ttccaaaatg ttgttggccc aagcagacca tacattctc caccaatcca acaacaacaa 180
caaccccaga aacaaccaac agttgaggcc cctccacaac cttccctcga agaacttggtg 240
aggcaaata ga ctatgcagaa catgcagttt cagcaagaga ccagagcctc cattcagagc 300
ttaaccaatc agatgggaca aatgggtacc caattgaatc aacaaa 346

<210> 19029
<211> 116
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19029

gccaaagccc acacccgcca acacccgctg acgcgaaccc ctttgggccc nnttgaaata 60
acttngtata tggatgctat acgaaggtat tatccatgag cttcgacttt cattcn 116

<210> 19030
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19030

agcttatgct gtaagaagta agatgtgtgc ttgagatgtg tttaaaccct atctcaacag 60
gaaagcttga tgaagttggg atgatatacc agttcgggtgc tggtagatgg aagcttagta 120

gaggaagcat ggtcattgct caaggtaaga aggaaggctc cttgtacatc atgccaggan 180
 agatatgcaa atggaagatg aatgttgctc aagatacaac caaagaatta tgacacaaga 240
 gattngtca catgagtgaag aaagggttgg agtttctaac anaggatcac tgtccaaaca 300
 taaagggcca gccacttgaa tcttgccaag actgtcttgc angtaaaaag tgcaaagtgt 360
 ctttccaaag atcggatgag gctagaagga gaaaaaaatc ctagatcttg tccattcaaa 420
 tggttgctca atgtctgaaa agtctc 446

<210> 19031
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 19031

tgacttaatg gtggaaggag ataaggaatg aaaagattgt gtgtttaaat cttctgtag 60
 taaaaagggt tgatttatct gccgacaata ttatttaaatt atttttgggc cttcaatttt 120
 atgtcacttt tgtttttgggt cctccaactt taaatttatt tgtcttagtc tctcaatatt 180
 tctggtcctt caagtttatg tcaacttttgg ttattcatta tgcattgcgc cttttatata 240
 atgtagcttt ctttacatgc ataaccaacc taactaaca gattaaaaaa ctctaacaac 300
 caacaactga attactaac tccacgtaac taatctgcac gtgggttatt atacttggct 360
 gcaacgtttt cttcttcta acatttcta acccatcaaa aacacct 407

<210> 19032
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19032

agcttataag atcatatttg cctaaatcat ttccaaatat gcatgtgaat tatgaagcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaac acaccaaag 120
 attatgatga tggatggctc atattctcac aaaggtaaac ttatcacttt caaattgagc 180
 tttcaaaatt atcatgacat gtagaggaaa aacaaggatt tcaaatcaca aaatgtcaag 240
 agacttttat tgtcagaaca atgaccatc tcttgaacat atcctataat tcaaagaaca 300

atatgagagt tgtacatgca aacataattg acctataata ttataactaga aaccaacaac 360
aactaacaac tgtaacacaa acgaaactaa canaactagc aaaaccacaa ccatagaaca 420
ctccctgcc a tactaaaaca acac 444

<210> 19033
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19033

gcttcttcat ntatagcctt caactntaag tatttgttgt ccctcagcgg atggttcttc 60
actatattct tcattaaagt cttgaagctc ttggagcatt taatgcatgt ctcttcttca 120
tgcaaagtct atgctaatac ctaggttgac atgtcttata cttcaacaag aaagtcactt 180
cttccatcag agcaagtatg caccagcaaa gtgcgtcttt cgatgaagat caaacactntc 240
aaactatgga cnttatttat tattcatagg atttaataga ttctaggaga atgttttccg 300
caacaaagaa tctcatacat aanatattaa atgtaggtat taattaaatg cactacttaa 360
tgttatgaca agatcatctt atattgatgt aacatcagaa aactcanacc cagaaataca 420
aaccataatc tgataacaca tc 442

<210> 19034
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19034

atattgttat ccagctcgcc caggcgagct aggttgcttc ctccataagc aaccgccttc 60
tggaagaata ttctggaaga gccagtgagg cctgattgct atttgcaccc tcatttgtac 120
taaattgcagc gcctgatgag tgatgggtgac tctatttccg tgacattact aaactttaca 180
aatatcgtaa cgatgcttgt ttcctttacg taatgatccg taatgtaaca atgcatttgt 240
cctttacgta atgctacaga atcataccct tttgccttcc ggaatgttac agatctatac 300
agattgtgca ctaaacactct cttttaattt ccgacatgac acgaagactc acggattgtg 360
ctacaatgct ttcttttgac tncgggctg tcacgggact taacgaattg cctaacgatg 420

<210> 19035
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19035

ggcactcaga acgggaacat tgctgttgac caaaaaacga gaacctaaaa atgggtgctt 60
 cccttaacca taacccccaa ttccaaggaa attaattgga gttaatttct aatccctttt 120
 aagataataa tatcttacac ttctcattta tactgttaat caatcagaaa tatatatgaa 180
 aacactttta agtattttat ataacagtaa caaactaata tatgtacata cataactgct 240
 actcataatt actatntttt angaaatggt taagcttgta atatctatag tttgtgaatt 300
 ttccagcata tttgctatac tataaatgtc aatatgtaac caaatagtgt tgtttngtaa 360
 taatgangaa ctgcacagaa ggaaaacaaa aat 393

<210> 19036
 <211> 248
 <212> DNA
 <213> Glycine max

<400> 19036

atgaatttat aggtaagaaa gccgaatcca cattcaggta attcaaaaact aacaatgatg 60
 atcactaaaa tccaaggta aaggcagaaa accagcatac gcctatgctt ctatcaatga 120
 agaaaatagt gttatttagt gaaatcggt tgcgaaacgaa ccggttcatt gaaataaaca 180
 acgtaaaaca cacgttacta acaagagggt ctgatatgtg taaaaatcga gccgaaaaag 240
 agactttg 248

<210> 19037
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19037

ttcttctcta atgtgatcaa tacattcatt ggcagattga aggatgaagt tgtgggtgcgt 60

gatctgtttt tgtgtcacc agatccagta aagttatgca atgcatgtca tctgggtgtt 120
 ttttttatag acagtaccta caaaacaaac aggtacagac tcccactact tgactntgtt 180
 ggagtgcac caacgggtgat gacattctct gttgggttta catatctgga ggctgagcgt 240
 gttaataata ttgtatgggc tttggaacaa ttttgaggcc ttttttaag aaacgatcgc 300
 ctccctgttg ttattgtcac tgacagagac ttagcactga tgaatgcagt gaaaactgtg 360
 ttccccgagt ctactaattt tgtgtgcang tttcatatcg ataagaatgt gaaggcgaag 420
 tgcaaattct taatcg 436

<210> 19038
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19038

tgcagggtgcc ntttgacacc cttggatttg ataccctagc tattacgtga cctatagaat 60
 actcaagcct gttaattctc ctaacaaagt ggccatcttt ccatcatcat tggatatgcg 120
 ccttaatggc acattcagaa tttttggcat tataccctta ttgaacctac cttaaattgg 180
 aattcattaa ttaagaattc cttatcctac cgaatccatc aagcttggac catttattat 240
 aattagggga tggctttcat tgggtaggcc aagccaaaaa cccagaattt tagtttttaa 300
 ctctaaggac acttatccca ttccttgagc ttttatttca caggtatatg tatctgtatt 360
 atgcctaggc atctagaaaa ttcgatttac tgtctattga ttttgcaat tgtcagactc 420
 tttacgataa gttaaatttt ttgtcacact actttaacaa gtgaaaatag atctcactga 480
 gtn 483

<210> 19039
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19039

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 gcattagtgt atttatggac taagttggat gataaatcta tcaaattgtgt atttattggc 120

tatgctactc agtcaaaggc atacagactg tataaccac taactggcaa gataattgtc 180
 agtacaaatg ttgtatttga tgaagatgca ggctgggttt gggaggaatg tgaaatcagt 240
 caaagtgttc agcagaaatc agtcaatttt gatgggttag aggaggtctc anatgtgcca 300
 cataatgatc aactccaag cctccttca atgccatcaa gccagggatc attaactcct 360
 tcaagccagg tatcatctag ctcatcaagt gantttgctc caaggagata caaatctttg 420
 gcagacttgt a 431

<210> 19040
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 19040

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 ggtgaccaca acagcgctgg gggcggcaac ggacaatggt ctttcaaata aacctgttgt 120
 acatgaacaa acattatata atgcgctgac cgtgccaaac gaacaagcga agtcattgca 180
 taattggtac acttactata ttcaatggac ctgaacaaaa tgattttcaa acacgtgacc 240
 gacacatatg atgcggtggc cagaagaatc aagtgggggg tgacttctaa gagggaaaaa 300
 tgtcatgcct tgttggtggg acaacgatac catgattacg ttataccgtg aagcaatcac 360
 atatcccatg tcttgatat tca 383

<210> 19041
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19041

agcttattct tcagagtaaa cttaccacaa acatcaagtt cttcaaatat tttggatata 60
 gtttcatta cttccttgat gtcacctcg ggctcagata acccttggtc taaaaaattg 120
 agtctcctcc aaaacatatg gattgaatcc agtgggatgc aaccaataac atatttggat 180
 agtcacaag cacaaggaag atcgtgtgtg gttttcatca cacaaccact agtggaagga 240
 ttcttgccag catagtgaac acgctcaaat tcagcagcaa tatgatttan agcatacctt 300
 gaaaccattc caagaagcct cttgtataaa gtttttttga agacatgtcc aacgacatgt 360

gtaccagttt caaaggatgc tctaatttca gtgtgctgca acatcatcat gttgttcatg 420
gcatcccaga cactgcataa gtc 443

<210> 19042
<211> 428
<212> DNA
<213> Glycine max

<400> 19042

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tcttcagaaa caagtcacat gaagaattgt gacttttgga aatgtatttt tcgaaaccg 120
tcactggtaa tcgattacac ataaacagat gtgactcttc attttgaatt ttgaaaatta 180
aaacatttag aagctctggt aatcgattac aagtgttggt taatcgatta cagaaagttt 240
aaaatacttt aaaactgggt aaacataagt tataactcct gaaatttgaa atctcaacgt 300
tttaaaacac tggtaattga ttactacctt ctggtaatcg attaccagag agtggaactc 360
tttggtaatg gatttgtgaa aacatcttgt gctactcaat attttgaaaa aacttttttag 420
tacttacc 428

<210> 19043
<211> 293
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19043

ttcttctgat gcnaggctgc cggagcatta taatcgctta taaacaacag acatttgata 60
atgatgacct atgaatacta gatgctttga acaaatgagt aacgaaccta cagctatca 120
ttcaaactct ttatgtagaa aactctttgt atagtcttat acagtttgaa gagctctcgg 180
aacatcttga atactctaag acaataact aaatgcttag atcacacatg tgtttgtaag 240
atgatgaaga tctaactgag tggcagatca aacagcatat cttttgatgt gat 293

<210> 19044
<211> 396
<212> DNA
<213> Glycine max

<400> 19044

tgaaggctat actatatgta tctctggatt gttcttgctt tttggaccct acgaagaggc 60
aacaaaagct gctttttcaa acggaaagtc tctccccga tgaaaatata ttggaaaact 120
acaaagtttt taaaccttgg tgggaggtaa gacctatata gatgccatta tagttttgat 180
gatacactgc aagggaaatg gacatccatt tattggccta ttcatgccct cacaatgtcc 240
ttacatgatt atgctgaaga ttcttttata taaaatgttc ttgtagagac cccccgtcct 300
tgaataccta aaaaattgcg atctgtccaa cactttaaac ttgagaaccc ttttttttca 360
aattatgacg agagatacgt gcccccgat gattaa 396

<210> 19045

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19045

tgcttatttt gatgatgcca aagactcaag tcaagaatca agattgaagc aaatttcaag 60
aatcaaaggg tcattcaatc aagaatcaag attcaagaga agactcaaga tatgtaagaa 120
cctcaagaaa aacatcaaga taagtataaa aagaattttt caaagaaaag attgaatgac 180
acaatttgct caaaataatt tttcaaagaa aaatctttta ccagagtttt tactctctgg 240
taatcgatta ccatacagta atcgattacc agaagtccaa aacaattnta taactgttnt 300
acaaagtagt aatcgattac catgggcatg taaccgatta ccaatgttnt tgaacgttga 360
atttcanatc tcaagagtca taacttgtga canaatattt tcaaaatagt gtaatcgact 420
a 421

<210> 19046

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19046

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cacgttggct aattttcttt acattgcaaa tttcactgct tgcacaattt ggactatttc 120

ttgggtgggtt tgtcaagggtg acctcttata atattgtgtc ccacaggcca atcaatctgc 180
 atttaagcat gatgggtggtg atgatgtatg ctttgggaga tttcctaaca cggtatagaa 240
 aaaaaagaaa aagtttataa cattttattgg tgcacctaat taaattattt tgcttacttg 300
 tactgactag tgactcctct ncatttctta ttcttttatt cttttgggtca attcaacttg 360
 tccttttctt taatagtgat tattcgt 387

<210> 19047
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19047

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 aactgttgga gagcaatttg gaagccaagt ccaaaattta caaggaccct gctttgagtt 120
 atattttctt gatgaacaat gggaggtaca ttgttcagaa gacaaagata gtgaattggg 180
 aaccctcttt ggagaagaat ggatcagaan acacgctgca aagttaggca attccatgtg 240
 cactatcana gaagctcgtg gaataagcta ttannggatt ctgaagtgga tagtaatggg 300
 tcaatgcccc atattaactt tgcaaagtca atgaaagaga aaactcagtc gttaacaca 359

<210> 19048
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 19048

acagtacacc tcgtagcact cctgtgctaa cccaacgccg attaccagct ttatagtttt 60
 gcgaagggtca ttgatttttc cccaaggtaa cgcacatcaac acaaagttac tgtcaattac 120
 tactgggttg gaattatctt caaggatttc cttcacaagc ttaaaaagca tgttggtgac 180
 atttgaattg ccctgccgaa gtgccctgat acaagtcatg aattgtggca tgatactagc 240
 attatctgta cgtagcgaat tgacatcaat cactactgaa tgctcatcct ggactccaag 300
 attctggtat ggcgtggtat ataaag 326

<210> 19049
 <211> 333

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19049

agcttttttg tatgtgaatc tgatataaaa gcctcaaagt cctctctcac tgtgtatggg 60
 gaaattgaga aaagggtagc agaacttgag ttcacaaagt ctggaaagga tctcagagcc 120
 cttaaacaga ttcttgaagc aatgcagaga cataagtatt cagtagacat tgctagaggt 180
 cacgcttcaa attctccatc taacaatagg aataatacta atctcaacga aagctcanaa 240
 atacanagcc cacgagtcag acaaacagac acagcatctg taacggctga gatgtcaaatt 300
 tcaccccagg tagtaaattg ccaatgtcat cat 333

<210> 19050
 <211> 406
 <212> DNA
 <213> Glycine max
 <400> 19050

agacagaaca gtaattagat catattataa gtgttgattt atcaacttgg ctattgatat 60
 atagcatgat tagtagagga caaagcattt catgaattac aatacttttg tgaataccag 120
 tatgaatggg ttgagacata tacttgagca accatccata acctcaggtg gtagaagtga 180
 tgaatcaaga atagtgaac aatgtaattg agtcacaga atatccttgt aagaaaacaa 240
 tgctgtaact cttcaaaaca atgcctactc aagtccaaac tcaactaatg ttctggacat 300
 tttggtggca atatatcgat agtcaactga aaaaacaaat atgtaaacat acctttgaaa 360
 caagttgcac ttttcatgat tattaacata ttacacaca tttttt 406

<210> 19051
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19051
 agcttgtaa ttatctgttt aaaaatcaag aacaagctng tgcgcacatc gttagcgtat 60
 atgatatcca ctccacaagg ttggaagtag atgagagctt caaccctata acgcaacgtg 120
 gcggacagaa gtgggcaata aacttgaatg gtcgtcattg tcaatgctga aggtattctg 180

cgcttcacta tccatgttca cacattattg cagcttgtgg ttacgtgagc atgaactact 240
 accaatatat agatgttggt tatacaaagc agcacatctt aaaagcttac tccgcacaat 300
 ggtggcctct tgggaatgaa gcggtatttc cttcttctga tgacgcatgg aactgatcc 360
 ctgacccaac 370

<210> 19052
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19052

acttgaatag gatatagtat atattttatg catattttta taatgcgata atttgaaagt 60
 ttttgtttac atgggaaaac ttttagtttc caaaatcaaa aaatgcaaaa gtcaaaaaag 120
 ggttatttaa gggaaaatta ataattagaa aaaaaggctt cttaaattta ttctaattat 180
 taaatatccc ctaagtgtga gactagaacc taaataaatg ggtatactta catcaaatat 240
 accctatttt ttataagta aaaataattt ctccattcct ttgtctttta gaactttgaa 300
 accctttcaa ggtgaataaa atttaatatg cttctttaa aattattaag gcaaattang 360
 ctttctttct atatctcaga ctttggaaaac actattcttt tagatgtcta ctatgagctt 420
 ataaaataaa cttgatgata a 441

<210> 19053
 <211> 192
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19053

agctnnttga tttacgtgcc gctggagccg gccgcttaag cgccctacgc tgttcgactt 60
 caccgtgacg tgatagaact gaacttgcaa tgcacgcttc cgagtgaagc cccatgttat 120
 actaacgtga gcaaggatcg atgcgaatcc aaacttcgac atcgatcatg agtgataagg 180
 atgaatgcat ga 192

<210> 19054
 <211> 289

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19054

gctcggcccc gggatcgata atgtgactgc atgcatgcaa gcttttaatc aatttcgatt 60
gtctcaatat attacgggat tcaatcacac atgcgagcag aacgttattg tcgctagaat 120
tagctcagag catcagaatg cagtgtcgat tgtctagata tattacagga ctcaatgaga 180
cgtgcgatga aaacatcatc gtctattgaa tcatgtgaga gcttcacaat tcaccttcaa 240
gcgacgtaat agaatacggg actcgggtgan acatccaagc taaacgtta 289

<210> 19055
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19055

ttgttcggta ttgcctaaaa aatttgcaat gtagttttgc taggtttctt cgtgcgagtc 60
taaccgaagt tgtatttcgg ccgacgccgg cattntgtcg gccaggaaaa cattagccca 120
cctcggcaaa aaaaaaacat gattcaccgg tattgacaga aaaaaatgct ggccttagtc 180
ggccaggaaa gatgaccgat cgaggtctaa aaaagaagca tgaccggatt acgccgatcg 240
aacatttcct aatagatatc ctccaagcat tattcagggg ttgaatggaa aaaacaatag 300
ccgacatcgg tagttaaata gccgtgactg atattnttca gccaacactg cgcaacttct 360
ttcacaaacg ctggccgata atatttcttt acgggaaagg atgctttcgt 410

<210> 19056
<211> 266
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19056

tttctacttg ttccggatca acatcaacag aaacagaacc accactctgt cttgccttag 60
tcttcttatt tgacttgccg ttgaccttc cagtcccagt tccttcatct gcatcaattt 120
cctctatctc aacattacta tagccatctt cctctgtgac ccacccacga cttcgggtat 180

tcttttgcga tgagcccacg tctccatttg cagcaccagt ggggtgtccta aatgaataaa 240
 tnggaactgc agtagatacc ggagct 266

<210> 19057
 <211> 204
 <212> DNA
 <213> Glycine max

<400> 19057

ggggagttaa aaaaaaaaaat gatcacattc agaaaattaa tatattggag cgggtgtagaa 60
 acaccatgct ggaatcatca aacttcagta tcataaatta acattagagc gagccaatta 120
 aaaccaaagg tgaataatcc aaacttacat ggcactttca taattctaac aactcctaag 180
 aaaacaaaat attctctggc gatg 204

<210> 19058
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19058

cccctctaata actaagctca cctcttgaga agctttcttg aaaagaatcc taaattagct 60
 agagcttagc tacacacacc tctctaataa ctaagctcac cttcttgga tgagaagctt 120
 gaacttagat acacaccccc tataatagct tagctcacc ccatgaaaaa atacattgaa 180
 atacaaaaaa agtccctact acnaagacta ctcagaatgc ctgcgaatac aagggtctaaa 240
 ccctatacta ctagaatggc caaatacagg cctaaacgaa gggaaaaaaa cctattcta 299

<210> 19059
 <211> 234
 <212> DNA
 <213> Glycine max

<400> 19059

acttaccgtg tgattatcga aaacgatgta taacgaatga agaacgtcca agaacggttg 60
 aaatttttgc gaaattcttc acggaaaacg ttaccgaaac gtttcggaag cgccttggt 120
 taaattttct tcacggaaac catttttcca ggcaaattcc aaagaaagag aagtgcctaa 180
 ggggctgaac cctttttctt ttcacttctt tccctattta tagcaaaata gggg 234

<210> 19060
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19060

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 ttatggatca acttgaaact tatgtgcttc gagtgagaag aaatgcttct ttttccactt 120
 gtgaagatgt tcaaagtgtg gctatgaaga tggttcaaac tgagaaacat ttggtatttc 180
 cattggttta taaacttatt gagctagctt gcatattgcc ggtgtcgaca gcatccgttg 240
 aaagagcctt ttcagcaatg aagatgatca agtctagatt gcgcaataag atcaacgat 299

<210> 19061
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 19061

gaaatagctc aatagtcatt cactcttatt aaaaaaata aggacttate ttcattctcc 60
 tctcctgcgc cctttcttct ttctaagaac cgcttctttt tccctttttg gtcgggggctt 120
 ctttctccct tcttctccgg agtcagtggg tggttggtccc ttttctccg accgtggctc 180
 ttggtcctgt tttcgcggtg gttcgtggtt ggtactgtgg ggctttcgac cttcctcgtc 240
 gctggtcct 249

<210> 19062
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19062

agctttttaca tgaaataatt tacctcactc aaaatgacac cttgcaagca aaaacctaatt 60
 ccttgcaaga gcacgacttc cacaaccaa ctccttgcaa cacacacaaa caaacatcct 120
 tgcagtgagc aaaagttccc caaacaaga aacaagaag aagaagaaga agaagaagaa 180
 gaagaagaag aagagaacaa atactaaggt ccttgcggtt acaagaaga agaagaagaa 240

gttgtaacta ggtaagatgg ttaagtgtca cggtcgcaa gaagttgtac aatgaagctg 300
 aagaagttgt actcacgac atgaagaaga agaagtgaag aaaaagcgaa gaacanagtg 360
 cgaggaaagt agtagggctc gggttctgat attntaaaat atatgtccaa catcggtttt 420
 caatcaaaaa accgatgtta atccaatg 448

<210> 19063
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19063

gtgcctcttc atgtctggaa tatgaatgta gcatatagat tcaaagactc ttagatgctt 60
 tgctgatggc ttcttcccg tccaagcttc aattggaatc ttgtctctta cagacttaat 120
 tggacatatg ttgagtatgt aaacagcagt gtagacttgt tcaatccaaa atgtgttaag 180
 gagtcccttc tccttgaaca togatctaac tatttccata actgtgcgat tctttctctc 240
 ggacactcca ttntgggtgag gagaatatgc gactataagt tgctgctcta tgccttcac 300
 ctcacaaaat atttcaaact cgcgagaggt gtactctttg ccgcatcac ttcttagtac 360
 ttttatctaa tttccacttt gattttca 388

<210> 19064
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19064

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 agtacgtgag ctcagttgga ggtgggcaac aggggatggg gggtttatgc gcgatttggt 120
 gatgtgga aaactgtgtg cgccatcgcc cgaccgccac ctagtaccac atgtgatggg 180
 taccataa tctacaagc ttgagatgag gaagtgtaga aggggtgaaac ttctgcttt 240
 tattcggtga ccacaaagt gtacctggag atatgtcgcg gnggtcagga gaccttgggg 300
 acgtcaagt ggggtgtatt gcctaanacc aagcttgacc aatcccgacc caaccggggc 360
 atagtcagtc agtgagaacc tgtgatgtac ctaaacaggc gagcttcttg cagtcaaca 419

<210> 19065
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19065

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 aatgcaccca tatacaatca aggcagcttc gttacctaaa ttatttacac gtacttccaa 120
 ggtgtatttg gtacttacat cacacacatc ttcttggcta aattcacata catgcatact 180
 caaagcattt tcgggtacca aaaattgcac atgtgcacat cttgggtattt ctaataccta 240
 tacatacaca aacttcatga tgaatcttga ctatctacac aataagggtgc tacatttcat 300
 gctcttttca agtttttgct acctaaagcc gcatgcaaat tcaagtatat tttcctttgc 360
 tgactaaaat tgtattcaaa ttaaaaggga tacattnttt ggtaatgtat cttctttaca 420
 taacatgcaa catat 435

<210> 19066
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19066

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 acctccaatc tttaatggag aagggtacca ctactggaaa acccgaatgc aattttttat 120
 tgaggcaata gacttaaata tttgggaagc catagaaata ggtgtcgcaa cctacccttc 180
 ggcgggaggg cgacgcgaga ctgcgggat gcgtgttcca cgaaaggaat acgcgcggag 240
 tcgccaccaa cgttttatttg aggaaaacgt cgaanaaacc ggaaaagacg cgatctacga 300
 aactttacgt ganagggtcg ggagtt 326

<210> 19067
 <211> 240
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 19067

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ttggtgggaa tcgattatac acatctagta atcgattacg ggttcaaatt tccaaattaa 120
aaccctttta aacaactatt tttcaaactt gtcttctggt aatcgattac actgcoctggt 180
aattgatacc agagccttac atgtctttga aacacttntt ttttaggcag gcatgatctt 240

<210> 19068

<211> 292

<212> DNA

<213> Glycine max

<400> 19068

tttcttttag aagaagatac acacatgttt tgccatgccaa aaatcagcaa ccttgatcat 60
accattacga tctactagca tgcttgagcc ctttatatcc ctgtaggatt ggacacatta 120
gtgtcagata cttggaacta gaaataataa tgtatattat catttggttac atattaacac 180
ctgtgcacgc gatctcttgc atgcatgtag gctatagcat gaagaatctg tctggtgtta 240
catttcgcaa gagatgtctt gaaagggcca tatacctgat gcaaattgcg aa 292

<210> 19069

<211> 282

<212> DNA

<213> Glycine max

<400> 19069

ttattttcttc atcagaagat gggctgtcta attctttcca tgtgctcatc agaacttatg 60
tggccttttg cttcttcttt ctcttctaatt tcctgcaatg gtttattcct tcttctaact 120
acaccatttt gttatggtgt tctataattg acgagttatg aataattcca ttttcttcat 180
agaatagatg aaagctcttc atttcaaaat cttcaccatg atcaattatg aatgaagtaa 240
tgcttctccc ttttcattct gaattctttt atagaattaa ag 282

<210> 19070

<211> 383

<212> DNA

<213> Glycine max

<400> 19070

agcttgatat ctacatttgt gtgaaaagtt atgagcattt gaatttctca agagcttcca 60
 ttgttcaatt tccagcatct cgatatatta taagcctgaa tccgacattc gtgtgaaaag 120
 ttatgaccat ttgaatatct gaagaggttc cgttgttcaa tttcgagcct ctcgacatat 180
 tatacgctcg aatcgaacat ccgtgtgaaa agttatgacc atctgaatct gcaagagttt 240
 ccgatggtta atttcgagcg tatcgatata ttataagcct gaaacggaca ttcgtataaa 300
 aagttatgac catttgaatt tctcaagagc ttccggtgat caatttcgag cctctctaca 360
 tattatgcgc ccgaatctga cat 383

<210> 19071
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19071

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 gagtcacgtt gaccggcgga gataccctag tggttatccg tataaacatt cttttttgct 120
 gtctgtaaaa cgaaaagcct gatagcatgc agagactaac gtcgtcttct gcgcccttcg 180
 tcaatcgagg ccgacaagcc cgttgacacg cagagattta cgtcattttc cgcgctcaca 240
 agatctgtca tactgacatt tgagtcatgc tgacggacgg aaatacccaa gtggatatcc 300
 gtataaacat tcttttttcc tgtctgtaag acgaaatgcc tgatagcacg cagagactaa 360
 catcgtcttc tgggcccttc gtgaatcgtg gccgacaagc ccgttgacac gcggagattt 420
 acgtcatctt ncacgctcac aagatc 446

<210> 19072
 <211> 473
 <212> DNA
 <213> Glycine max

<400> 19072

ggtgttgact gcatcgaca gcgaaggcga actcggactc cggagatcgt gttgacgtca 60
 actgcacgcg tgcgagcgcg aacttttatg attatcacgg cccaatgaca tgtgtggcta 120
 tagggtagtc tgttgattgc gcacaacatg gtttccgcat acgagatggc gcgaacaccg 180
 agtaataatt attgtattcc gacaactgca tcttcttact cacatatgac gaagatgctc 240

ttttggctaa cgacgggggc cgcacttgcc tttagcttac cctcaccag catagcactt 300
 catgccaaca agctagtcca gctctatata gaggtaggtt taatctccgg aaacctcttc 360
 ccctatcttg tgtcactcct gatcctgcga catcttgccg atctataccg atgttcgttc 420
 ggactcctga acttctatct aaccgggttt cagcaggggc acagaacgtc ccg 473

<210> 19073
 <211> 442
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19073

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 atatgactta tcagttatca tcttgctttt gaagtgattg ttaatccttt aaaggtcatt 120
 tgttgagagt gatggaaatt acttgatatt tctcagaaag tataaatgcc tttatcacia 180
 actcactcat gaccacaaac acaagtcttt agtttctata atattctaaa ttgctcttca 240
 gtttctgcct tctggtaacc tggtttaaaa ttatctaagt tgtcaatctt aataccttcc 300
 atggactaca cactgtttgc aaagagctta agacatggaa agtgtcaggg atttttgtga 360
 gttataatct caatattgga acaaaatgct nttctgggtt tcaatgttgc tatcctattc 420
 aagaaatctg attttaatac at 442

<210> 19074
 <211> 447
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 19074

tattaattat ttgattatta aacccccata cttcagacac tcaatcatca tcccacaata 60
 aagttgcaat tntagtctta ggagtataa aagcaaccaa aggttaatcg gtctattcaa 120
 ggatatgatt tgcaaagtgt tcttaataga aactggttaa ttcataatctt aacacaagca 180
 caaaggaatc tgagcaacta atgccatata agaaatatgc caagcaaatc taccaatttc 240
 ataccatgca agaaacacaa caaaaacat cagcaataa gtatgcagtt tacatatacc 300
 tgaactgaca taagtataca gttttaagag gcttaatatg caaaataaaa tcaaacctga 360

aaaatatcat taaaaatgat gatcttacca ggaatacacc cataatggat agagtctgct 420
atccgagcac tattaacctg tgatcca 447

<210> 19075
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19075

agcttcctaa tcatcattga aaagagaatc tgaagagttg aggtgaagct gaagaagatg 60
ggaagtgacg ttgtggcaga ggactccata ccagtggcaa cagttggtat tattatgatt 120
ccaagaccaa agcctattgg aaggatctat gagattattc ttaaacttca aaagtgtctc 180
acgctcactt gggatgcaca cactctctct gcatggtaag ctcaacaacc aaagctggac 240
aaagacaaga atataaataa tggaggagga attcatgac acacaagaat atatagaaaa 300
caagtgtagt tgttggttcc gcatataaat catcaaactt ctattattta tactgctgcc 360
ctgcctgtnt ttttcttcac tttcattatt ntntacctt tttattattg tgccanatac 420
tanaatatcc ttccattc 438

<210> 19076
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19076

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aattacttgg acttgagcgc caatgaatac cttggagaag gtatgtcaat tccttctttc 120
cttgggacaa tgacttcctt gactcacctt aacctttttc atactggatt ctgggggaag 180
aatcctctctc aaaatgggaa tctctcaaatt ttggtgtatc ttgacctgag ttcaaagtgt 240
gccaacggaa caataccctc tcagatcggg aatctctcta agcttcgata tcttgacttg 300
agcgccaata ttttcttgg agaaggcatg tcaattcctt ctttctcgg gacaatgact 360
tccttgactc acctcgacct ctctggtact ggattcatgg ggaagattcc atctcagatt 420
tggaatctc 429

<210> 19077
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19077

agctttaacc tcacgtctc tcacagtctt tagatttggg agccaatcca gtccttgtgt 60
 tcggactctc agccacttat gatagccgcc gatgatccca ttactgcttc ccctaagctc 120
 tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttgagta ccctcgcgtt 180
 gtggtcactg aaacctcatg cgatgaaagg cgtgatgctt tcgtctgatg gcactcctct 240
 catgggacat ccttcgcatg aagatagaat cctgattctt ccttccttct agcgagggaa 300
 ccatntaaca gaacgccct catgc 325

<210> 19078
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 19078

tgctcgaag aggtccagga aggacaaggc agccgaagga tctagttccg ctccggagta 60
 tgatagtcac cgctttatga gtgctgtaca ccaacagcgc ttcgaggcca tcaagggatg 120
 gtcgtttctc cggaacgac gcgtccagct cagggacgac gagtatactg atttccaaga 180
 ggaaataagg cgccggcggg gggcatcact ggttactccc atggccaaat ttgatccaga 240
 aataatcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300
 atcctgggta aggggtcagt ggatcccgtt tgatgc 336

<210> 19079
 <211> 312
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19079

tcttcttctg tcactttttt aaatgaagga ccagaaaaca tgccacccca ttgtggaaaa 60
 gagattaaac atattggcag ggtgcatatt atgatcatgg ctcccattag agtgattcct 120

[illegible]

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<223>      unsure at all n locations
<400>      19080
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| | |
|-------|-------------|
| <210> | 19081 |
| <211> | 335 |
| <212> | DNA |
| <213> | Glycine max |

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<223>      '  unsure at all n locations
<400>      19081
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| | | | | | | |
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| tgcacaacaa | agtttccaca | tccacaaatt | gtgcataaac | ccaccatccc | ctattggcca | 120 |
| cctccaactg | agcttacgta | ctcccacgta | gcccatatcc | tcgtttctct | caacaccggg | 180 |
| tccccatcaa | tcctctcaag | cttccccaac | atccaagtaa | aacaacattc | aaacaacaca | 240 |
| aactatcaca | gccaaaaaa | cagagcaaag | gcagaaaact | ctgccaaaac | accaacccaa | 300 |
| atcacagctt | ntctcactta | aagaccccag | taaca | | | 335 |

7988

<400> 19082

ccaaagtcct attaacaact tccgtttgcc catcggtttg tgggtgacaa gtggttgaaa 60
ataacaattt aatgcccacac ttgctccaca aagtcctcca aaaatggctt aggaacttaa 120
agtcctctatc actaacaatg ctctttggca aaccatggag tctcacaatc tccttgaaaa 180
acaaatcagc cacatgggaa gcatcatcaa cttttttaca tggaataaaa tgagccattt 240
tagaaaacct atcaacaacc acaaaaatgg aatctctacc attgcttggt tttggcagcc 300
caaaacaaaa 310

<210> 19083

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19083

ttcttgtctc anagagggtcc aggaaggaca aggcagccga aggaactagt tccgccccgg 60
agtagcacag tcaccgcttt aggagcggtg tacaccagca gcgcttcgaa gccatcaagg 120
gatggtcggt tctccgggag cgacgcgtcc agctcagga cgacgagtat actgatttcc 180
aggaggaaat agggcgccgg cggtgggcac cactgggttac tcccatggcc aagtttgatc 240
caganatagt ccttgagttt tacgccaatg cttggccaac agaggagggc gtgcgtgaca 300
tgagatcctg ngttaggggt cagtggatcc cgttcgatgc cgatgctatc agccagct 358

<210> 19084

<211> 387

<212> DNA

<213> Glycine max

<400> 19084

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tggtaccttt tagcttttct ggttcatgcc cagctgtgat gccctatgt agttggcgat 120
gcagtgggaa cttttgtccc taaaccctag ctttctgtct gttacacttc atactaataa 180
aaaagagcta tattttgtgg atctgggtgt ggaaacattt tctcttggtt cattacttgg 240
tggtaaaata ggatttgaac ccaaattcac gcgtccacta tgatctatta attaatagaa 300

cctaggctgc taaactatca attacgagaa tatcataatt taaaaaccaa aaacaaacat 360
 atttaacaca catttaccta acattat 387

<210> 19085
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19085

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 cgatgtcgac catcatgtct cttgtatagg gatcacag agagctggct agttaagggtg 120
 atcataagtg aagtttcgtt aagtcgatcc tctatagagt gagagattac aatatctgcg 180
 ttatgtcata ctcatcattt agatgtaatg aaacatcact atatgaagcg catgaaaaga 240
 tctcatgagg aattagacac agtatagcga ttgattatac tgagatataa ttacgaggcc 300
 acaattcttg gtgctatatc agtgtgatca actacgatac actattaagg tgtgtgtaat 360
 aatctaccca ctacaattat gataatgaac gcctgtggga actatatcat aatgtattgt 420
 tatgatctaa atgattagac tctgactcca agcaagtgtt agtctctaaa tcataag 477

<210> 19086
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 19086

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 ggctccttca tcaaaagtca ataatacaaa ataaaaaact ttgtaacaac tacttcaatt 120
 ctgtgtatgg accacataac agttatatgc taacattctt ccacttgact catatattac 180
 taatataatc tttattttga caaacaata tgactataac ttgtcaattt aaacttgata 240
 ttgtcactaa aaattaatta cacatgaatc acgacgggta tatttttagat taaacatttt 300
 ctttcatgaa ttacaatatg taaccttttc ttagtgaaat atagggtctt aacattatng 360
 attcaatng aatgctttta tgactaaact aatgtgcaca agtcatagaa tgaaaaaaaa 420
 cat 423

<210> 19087
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19087

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 cctcacatgt cttgtgctaa atgtttttta catgattctt tagagtttcc accgattaaa 180
 cttgctatag aagctagatt tgattntcta tggttcaa at ttcttggttct tgttcttgaa 240
 ccgtgaattg tgttgagttt aagttccttt gaattttgtc ttgttattct ttgtggctga 300
 aacctaaatc ataaaattct tacaaaaata ttaaagtaga agaaaacctc aaaaatctag 360
 agtgacttgt tcagctattg tagtntgtc atacaagtca tgtctagtca tgaaacttgt 420
 cacataagat ntcttatgtt gtga 444

<210> 19088
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 19088

tatgctgcaa atatttaca tagacctcct caacctcatc ttttaaattt atcacagcag 60
 agcaattatg acctctccag caacagatac aatcctggat ggaggaatca ccctaacctc 120
 agatggtcca gccctcagca acaacaacag cagcctgctc cttccttcca aaatgctgct 180
 ggcccaagca gaccatacat tcctccacca atccagcaac agcaacaacc ccagaaacag 240
 ccaacagttg aggccccctc acaaccttcc ctogaagaac ttgtgaggca aatgactatg 300
 cagaacatgc agtttcagca agagaccaga gcctccattc agagcttaac caatcagatg 360
 ggacaattgg ctaccaatt gaatcaacaa cagtcaccaga attctgacaa gctgccttct 420
 caagct 426

<210> 19089
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19089

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 cgtcagcgtg actcaaaagt cagtatgaca gatcttttga gcacggaaga tgacgtaaatt 120
 caccacgtgt caacgggctt gtcagccgcg attaacgaat ggcgacagaag acgacgttag 180
 tctctacgtg ctatcaggct tttcgtctta cagacagcac aaagtttata cggataacca 240
 cttcgggtatt ttcgcccgtc agcgtgactc aaaagtcagt atgacagatc ttgtgagcgc 300
 ggaagatgac gtaaatctcc acgtgtcaac 330

<210> 19090
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 19090
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 ccgttgacac gtggagattt acgttatctt ccgcgctcac aagatctgtc atactgactt 120
 ttgagtcacg ctgacgggcg gaaatacccg agtgggtatc cgtattaact ttttgcattc 180
 tgcaagacga aaagcttgat tacacgcaga gactaacgtc atcttctgcg ccattcatca 240
 atcgcgggcg acaagcccgt tgacacgtgg agaattacgt tatcttccgc gctcacaaga 300
 tctgtcatac tg 312

<210> 19091
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 19091
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 ttaatcttag gggaagatta agtgtagtgc caggagtgc ctatagagta ctattgttag 120
 ctagaagtgg catagagaat acttgattgt aatcaaagaa ttaattagtg aaatccttca 180
 aagtttgaag gaaaactgga cgtagcccaa gagttgggat gaaccaatat aaaacttgtg 240
 ttttctttac tgcttctata taactagttc ttttccatat gttactccta cactactcta 300

tccaagtttt gtgaactgat tttctaagca cataatgatt tcaaaccctt tggacgaaac 360
ccaacgtcta ttaatatct 379

<210> 19092
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19092

tntatgtgaa aggatgtgac tcttcacatt tgaatttgat tttcaacgtt caaaggcact 60
ggtaatcgat taccaaaaca ttgtaatcga ttacagcttt ttgaaattaa ttggaaccgt 120
gtaaattcaa tttgaaaaat ttttcaaaac aattttgcta ccggtaatcg attacaacaa 180
tctggtaatc gattaccaga gagtgaaaac tctttggtaa acatgttttg agaaaaatca 240
tgtggctact caattttgag aaaaactttt cataactatc ttgattaagc cttctcttga 300
ttcttgaatc ttgtgtcttg gatcttgatc ttgattcttg agatcttgaa ccctgaatct 360
tga 363

<210> 19093
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19093

agcttcttat ctttaagcttt tcttggaggt gaagctcctt cttccttggc ttattcccta 60
gtggatgggtg tctccctctt cctcttctcc ttgctctcc gctgcatctc catgggtgtaa 120
aatcaccatt aaaggacctc attgaagctc anagatccag ctttcgtaga agctccacaa 180
gcaagcttcc atcagttgta atcgattaca acatttggtg atcgattaca ctcttcttga 240
ctgtntgtaa tcgattacag tattgtagta atcgattacc agagaacatt ntagcaaaac 300
ttaaatgctg gaagaaaatc tatggtgaaa ggatttgaga gggggtcana atactttata 360
tgtaanaact cttatatgaa aataaatata tat 393

<210> 19094
<211> 437
<212> DNA

<213> Glycine max

<400> 19094

tccttaagaa gattcctaaa gaagctagag cttagctaca catacctctc taatagctaa 60
gctcacctcc ttgagatgag aagctagaac ttaactacac accctttata atagctaagc 120
tcacccccat gacaaaagaa aacatgaaaa tacaaaaaaa agtccttact acaaagacta 180
ctcaaaatgc cccgaaatac aaggctaaaa ccctatacta ctagaatggc caaaatacaa 240
ggcccaaacg aaggaaaaac ctattctaatt atttaciaag ataagcgggc tcatacttag 300
cccatgggct cgaaatctac cctaaggctc atgagaacct tagggcctac ccttggatct 360
ttagcccaat ctacttgag tcttctaccc aatgcccttg cgggatagga tggcatcaca 420
aagcatcaaa attcaat 437

<210> 19095

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19095

agcttgtatg ttgttttgta tcattccaga ccatattcac aataataatc attctttctt 60
cgcagtatca gagaattctt ctgatactgt ctgactctga tcccttgtcc atgatgttaa 120
gtgtcaaaat gggacacctc tactttcttt aataacataa ttgcagagaa ttattgtagc 180
atanaatgca tagcttatgt ccttgtgaaa cgcaatgcag agaggcctgg aactatntat 240
tgcttctcac tcagctttca tagtttgggt tgcattgttt cagccaattg gagatnttaa 300
tcatatatct ctcgaagcta actgcaagaa agttgactaa tgtattatgc tnttgctgtc 360
aggatatctt gcatgtgctc gctgttcaag 390

<210> 19096

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19096

tcatggaatt ntatgcgatg acatgggact tggaagaca cttcaagcat cagctattgt 60

ggcctctgat atagctgagc atcgaacttc aattgggaat gaggatcttc tgccatcttt 120
aattatttgc ccatcaactc tagttgggca ctgggccttt gagatagaaa agtatattga 180
tgtttctgtt atctctagtc ttcaatatgt tggttctgct caagagcgaa tgcttcttcg 240
ggatcatttt tgcaagcata atgtcatcat aacgtcatat gacgttgctc gtaaagatat 300
tgattttcta tgacagctgt tgtggaatca ctgcatctta gatgaagggc atataatcaa 360
gaatgccaa g tctaaagtta cacttgcttg taaacagttg aaagcccaac accgcttgat 420
attgagtggg acacctata 439

<210> 19097
<211> 291
<212> DNA
<213> Glycine max

<400> 19097

cgcttttttt tttattttta tagagcgagg agagagacag aaggagactc gcgataaaac 60
tgtcttggga caccctccaa tggatagaga tctcatatg cctataacga ggtaaacaga 120
ctagtgcata agaagacttc ccctcaagct ggatccttcg tatatagaga ccatgtacat 180
tagaactttg ttttagcagc cttagagata ctaagcggtg gtgggtggaa caaccactac 240
gtatcgtgta tttattagat tctgacctta tgatctacga ttcaactcct c 291

<210> 19098
<211> 213
<212> DNA
<213> Glycine max

<400> 19098

gtggatgaat catcccaacc ttacatgggc gatatcttca caactagtag caacaacaac 60
cttattttca aaatgttgct ggccaagta taccatacgt ttctcacca atgtagctgc 120
aacaacagca acagccctaa aaacagtaaa cagtcgaggc ttctccgcaa ccttccttg 180
agaactttga ggcaaatgat atgcaaaaaca tgc 213

<210> 19099
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19099

agcttttcgta tataatataa gacaatacat agcaacaata tgtcgggtatt ggacaagttt 60
aaaagcaaca tctaaacaga ataacttcta atttcaaaaa tagctatttc taacttttca 120
ggtggttaagt gaatcgaata aactcattca aaaacctgaa gttatctcca ctttcataaa 180
tacatatgtc atcaagtagc aggtaatccc taaaaagcc aaatatttgg tagtaggctt 240
caaaaaaagt gttgaatccc ggcccatggt aagcttcata caagagaact gaaagtcttt 300
gttgataatt atttggtagc agtgatggtt ttcaattcta ttctctgact ntgacaagct 360
gctctcattt gaccagattc tacagaagat agatgaatat atttaccaga catat 415

<210> 19100
<211> 398
<212> DNA
<213> Glycine max

<400> 19100
tcttgaacga gatcagtata ttcattggca caaattaaat gatctaagac gtggtttttg 60
atatcttttg gtgtcaccct gatgcaatga agttagtcaa tgcattgtaatt ttggtgtttt 120
tgataaacag tacctacaaa acaaacaggt acagactctc actgcttgat tttgttgggg 180
tgacaccaac tgggatgaca ttctttgccc gttttgcata tctggaaggt gaacgtctta 240
ataatgtggt ttgggattta aaacgctttt gaggtatatt tttaagatgt gatgtccttc 300
ctcgagttat tgtcactgac aaagacctaa cattgatgaa tgtagtgaaa attgtatttc 360
ctgagtgtac aaatttggtg tgcaactttc acacaaac 398

<210> 19101
<211> 528
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 19101

agnacaatg tgttgcattc ttganagcga annagctcg gacccgggat gcttagagtc 60
gacctgatgc gtgcaagctt gtatattcac acattcacac acacacacac acgcgcacac 120
acacacacac acacacacac acacataaac cttactcta ttttctttcg taaaataatt 180

aattccaacg acattcataa tacttcatag gaataaaaga agtgaagtaa atttttgtga 240
 aaataaaaac tttgtatata aacttctgaa actcgttctc ctttatgaag catacataat 300
 tttctagggt gtatacacat ggtgtactaa aaaacaaata agttctagaa taaataaacc 360
 atacattctc aggtgataaa tatggataaa caagtctatc tccatgggtca ccacatatag 420
 ataaataagt ttcataagta ataatagata gcaagatgta agtgtctcaa tggaaagatt 480
 aagtagcata tacgatccca taatatcgag tatagagatg tagagtag 528

<210> 19102
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19102

gcttgatgca acattnggag agattaatga aacaacgata tgattcgctc catgatttgt 60
 tggatcaaat ggagaataga gatcataatg aagaagaaag gaggaggaga gggaatgatg 120
 gtgttcctag acaaaaccga attgatggta ttaaactcaa cattcctccc tttaaaggaa 180
 agaatgatcc agaggcctac ttggagtggg agatgaaaat aaaccatgtt ttctcatgca 240
 acaactatga ggaggaccaa aaggtgaagc tcgccgccac ggagttttcc gactatgctc 300
 ttgtgtggtg gaacaagtta cataatgaga gagcaagaaa tgaagagcca atgggtgata 360
 catgtgcaga gatgataagg atcatgatga agcggtatgt gccggctagt tacttaaggg 420
 atttgaaatt caagct 436

<210> 19103
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19103

nngtatatgc tcgattaaag acaagtgttg tatatactag atatgactct tataagtga 60
 actgagtgc tcgtaagaga attcttacca agattgatgc acaaattattg gattaatcag 120
 tagagttgat cttggaatgc cattgagagc tctttgggaa gaaacatttt atgctctaca 180
 aacatacgtc tgggtatgag atatggacat aaagtggatg gcatagccga ctaccgcata 240

tatcgttgta ctctgctgcg cactcgattc gagacggagt gctgtaatcg ctctcttgct 300
 gtgcattaaa tgacaatgca catgctgcag ccattcgaca ccctggcagc gatacttgcc 360
 tatgtgttgg aacactatca aggtgtatgt ccatggggaa gcccccttc ctgaggatgg 420
 g 421

<210> 19104
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 19104

atcttgggtg atgttgcgcg tactgatggg taccatgagg tgttgcttga gtttgaccca 60
 cgcggtgtt gaagagacgg catgggcac ttctttcttt ctttttgccc ctggtggccc 120
 gattcttttg gcattcgctt ttgtggagga aacgtaatca aacttttctc ttttcaatcc 180
 aacctcgatt ctttccccgg caaacaccag atccgcaaag ctggacggca tgtaaccac 240
 tagcttctca tagtagaaca ctggcagagt gtctaccatc atggtgatca tctctctctc 300
 accatgggag gagctacttg ttgccgcaa tcccttcac gctgcgcata ttctttaaa 359

<210> 19105
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 19105

ggacactttt agcacttcct tacatgaata caataatcat tcttcatcac gagcaaaaaa 60
 tatccagccc ttaaaatctt tcaggccatg gcatgcccac tggcataggg gccaaaggaa 120
 ctttcatgca ctttcttag tatttgctca acttcaacta catccacgca ccggagtaac 180
 accatatcat gggtttcttt gtatagcacg tccccattca aaaaaaagtt aactgccaac 240
 ctccgtagtg tctcttctgc attctcaaag gcctcatata ggtactccct atctttgata 300
 tatctcttga ta 312

<210> 19106
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19106

agcttcttta ggaatcttct taaggaagct tctcaaggag gtgagcttag ttatgagagg 60
 ggtgtgtgta gctaagctct agcttctcaa ggaagttttc tcaaagaagc ttctcaagga 120
 agttttctca agaaagcttc tcaaggaagc tacctagtct ataaatagaa gcatgtgtaa 180
 cacttggtgt aactttgatg aatgagagtc ttgtgagaca tacttcaaag ttccacttct 240
 ctacctcttt tattccttca attntgtgct cccccctctc tctttctctc cctctntctt 300
 ttctccatt gaagcatcct ctccaagctt cttatccaag gctcatcttg gtgggtgaagc 360
 tctttcttcc atggcttatt ccctagtggg tggcgctcc tctcacctct tctcctttgt 420
 cttccgctgc atctccatg 439

<210> 19107
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 19107

tcatgtcttn ttgaacttcc ttatcttcta acctgcaa atagcaagt cagtaacaat 60
 tgatcccacc aaatcaaag gtcaaaaatc aacaacttga gcaagtctta ctttcttccg 120
 ataagtctct tgacatcaaa gatggctcct tctgggttga cagctgcctg attcttggca 180
 gccttcccaa tgagtctctc actgtcgggtg aaagcaaccc acgatggggt gatacgggta 240
 ccttggtcgt tggctatgat ttcaacatgg ccattcttgt aaacaccgac acatgaatag 300
 gttgttccaa gatcaatgcc gatgaccgtc cctaacttgg tggcttcctt cttagcaatg 360
 gaaatcgcaa atagacatcc tatggagaaa tttctcaatg ttagttacat agttaaat 420
 ttacaacact t 431

<210> 19108
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 19108

agcttgtatg tatatcaa ataggccttta acgaatatca gaattggacc taccaacatc 60

tattatctta ttacactct tactgaaaag aatatccata tcgcactttc tgctatactt 120
gcttatatgt ctattaatga aatctataca gcatttatta acatatgcaa gtttcaagtt 180
ctcttttagag agtccaatat gttgcttttg cgagtgcctt actgagtctg atataaact 240
caattgataa caaatcatgt attagttggt aaaacaaaca ctaacattat attatacaaa 300
tt 302

<210> 19109
<211> 311
<212> DNA
<213> Glycine max

<400> 19109

agtaggatta tggggtaccc atcacattgt ggactatgtg gcgggtcgtgc tatggtgcac 60
aacaaggggt ccacattcac aaagcgcgca taaaccacc atccccttgt gccacctac 120
aactgagctc acgtactccc acgtagccca tatgctcgtt tctctcaaca ccgggtcccc 180
atcaatcctt ccaagctttc acaatatcca aacaaaacaa cattctaaca gcacaaacta 240
ccacagccaa gaaaacagag ctaaggccga atacagcttt ctcaattata gacccaagaa 300
caattgcttc g 311

<210> 19110
<211> 244
<212> DNA
<213> Glycine max

<400> 19110

atctgttacc atatcgtctc tcacagactt tagatttggt agccaatcca gacctggtgt 60
tcggactctc agccacttac gatagccgcc tatgagccca tgactgcggc ccctgagctc 120
tctgaccttt ctgcacgccg cataccatgc cttgcgaact cttgcagta ccctagcgtt 180
gtggtcacta aaacctcgtg cgatgaaagg cgtgatgctt tctgctaata gcgctcctct 240
catg 244

<210> 19111
<211> 410
<212> DNA
<213> Glycine max